UNCLASSIFIED

AD NUMBER AD845247 **NEW LIMITATION CHANGE** TO Approved for public release, distribution unlimited **FROM** Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Oct 1968. Other requests shall be referred to Central Intelligence Agency, Office of Central Reference, 2430 E. Street, NW, Washington, DC 20505. **AUTHORITY** CIA ltr, 7 Sep 2004



CONSOLIDATED TRANSLATION SURVEY

Number 130

Through 31 October 1968

CENTRAL INTELLIGENCE AGENCY
Washington, D.C. 20505

FOR OFFICIAL USE ONLY

CONSOLIDATED TRANSLATION SURVEY

FOR OCTOBER 1968

TABLE OF CONTENTS	
	Page
Preface	iii
Requests for Copies	iv
USSR	
Economic	1
Political	7
Military	9
Geographic Sociological	13 13
Biographic	15
Eastern Europe	
Economic	15
Political	23
Military	25
Sociological	26
Western Europe	
Economic	28
Political	28
Geographic	30
Afric a	
Economic	30
Political	31
Sociological	32
Middle East	
Economic	33
Political	33
Military	34
Sociological Biographic	34
stographic	34
Far East	
Economic	35
Political	36
Military	40
Sociological	41

	Page
Latin America	
Economic	43
Political	43
Military	46
Sociological	46
Scientific	
Aeronautics	47
Agriculture	48
Astronomy & Astrophysics	51
Atmospheric Sciences	52
Behavioral & Social Sciences	54
Biological & Medical Sciences	54
Chemistry	69
Earth Science & Oceanography	72
Electronics & Electrical Engineering	75
Energy Conversion (Non-Propulsive)	83
Materials	84
Mathematical Sciences	100
Mechanical, Industrial, Civil & Marine Engineering	102
Methods & Equipment	108
Missile Technology	110
Navigation, Communications, Detection & Countermeasures	110
Nuclear Science & Technology	112
Physics	114
Propulsion & Fuels	126
Space Technology	128
Miscellaneous	129
Information on Cover-To-Cover Translations	132
Index to Authors	225

CONSOLIDATED TRANSLATION SURVEY

PREFACE

This survey is prepared monthly from lists received through the cooperation of US government agencies and includes universities, research institutions, and commercial translation organizations. It is a compilation of projects completed or started during the preceding month.

Translations are listed by area and subject category. Scientific projects are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date of publication, and publication identifications of the completed project are given when available. Tables of contents of journals translated cover-to-cover are reproduced from the current publications.

Projects in process, i.e., not completed as of the date of this survey, are noted with an asterisk (*), and when available, a project-control or "in-process" number is noted in parentheses following the title. Certain details may be unavailable on such projects. New projects in process are not listed again until they are completed.

An index to authors of items in this issue is provided at the end of the survey.

Scientific and technical translations are grouped according to the COSATI subject category list except for military science and ordnance items which are listed under "military" in the appropriate geographic areas.

REQUESTS FOR COPIES

Requests for copies of published projects should be made direct of the designated producing organization.

Addresses of producers to follow:

ACIC - Aeronautical Chart and Information Center (see CFSTI)

ACSI - (see DIA)

AEC - Atomic Energy Commission (see CFSTI)

AF

Department of Air Force Assistant Chief of Staff, Intelligence ATTN: AFCIN-3D Washington, D. C.

AFCRL Res Lib

Air Force Cambridge Research Laboratories Research Library Office of Aerospace Research United States Air Force Laurence G. Hanscom Field Bedford, Massachusetts ATTN: CRMXLR

AGU

American Geophysical Union 1515 Massachusetts Avenue, N.W. Washington, D. C. 20005

AIP

American Institute of Physics 335 East 45th Street New York, New York 10017

AMS - Army Map Service (see ACSI)

Amer Math Soc

American Mathematical Society P.O. Box 6248 Providence, Rhode Island 02904

ANL - Argonne National Laboratory, Illinois (see AEC)

British Iron and Steel Industry Translation Service The Iron and Steel Institute 4 Grosvenor Gardens London, S.W. 1, England

CB

Consultants Bureau Enterprises, Incorporated 227 West 17th Street
New York, New York 10011

CFSTI

Clearinghouse for Federal Scientific and Technical Information (Formerly Office of Technical Services) Port Royal and Braddock Roads Springfield, Virginia 22151

CTT

Columbia Technical Translations 5 Vermont Avenue White Plaines, New York 10600

DIA

Defense Intelligence Agency Washington, D. C. 20301

FP

The Faraday Press, Incorporated 84 Fifth Avenue New York, New York 10011

FSTC

Defense Documentation Center Cameron Station Alexandria, Virginia

FTD - Foreign Technology Division (see AF)

HB

Henry Brutcher Technical Translations P.O. Box 157 Altadena, California 91001

HEW - see NIH

Institute of Electrical and Electronics Engineers 275 Madison Avenue
New York, New York 10016

Department of Interior

Department of Interior Branch of Foreign Fisheries (Translations) Division of International Affairs Bureau of Commercial Fisheries Room 8015 Washington, D. C. 20240

JPRS

U.S. Department of Commerce Clearinghouse for Federal Scientific and Technical Information Joint Publications Research Service Building Tempo E, East Adams Drive, 4th & 6th Streets, SW Washington, D. C. 20443

Natl Bu Stand

National Bureau of Standards ATTN: Dr. Henry Birnbaum Room 314, South Building Washington, D. C.

NIC

Naval Intelligence Command
Naval Intelligence Command Headquarters
NIC-15
Washington, D. C. 20350

NIH

Circulation Unit
Readers Services Section
Library Branch, DRS
National Institutes of Health
Building 10, Room 5N118
Bethesda, Maryland 20014

NMS

Naval Medical School National Naval Medical Center Bethesda, Maryland 20014 U. S. Naval Oceanographic Office Code 4400 Washington, D. C. 20390

NSJ - see AEC

ORNL - Oak Ridge National Laboratory (see AEC)

OSA

Optical Society of America, Incorporated 33University Road Cambridge, Massachusetts 02138

Patent Office

Department of Commerce, Patent Office Scientific Library 14th and Constitution Avenue, NW Washington, D. C.

Primary Sources

Primary Sources
11 Bleecker Street
New York, New York 10012

RSIC - Defense Documentation Center, Redstone Scientific Information Center (see CFSTI)

Sci & Tech Info Facility

Scientific & Technical Information Facility National Aeronautics and Space Administration Goddard Space Flight Center Contract No NAS-5-12487

UCRL

University of California Lawrence Radiation Laboratory Livermore, California (see AEC)

Economic

Proposals Made to Improve Accounting in Mining, by Yu. Igumnov, 11 pp.
RUSSIAN, per, Bukhgalterskiy Uchet, No 7, 1968, pp 3-11.
JPRS 46407

Computers Aid in Implementing of Economic Reform, by V. Isakov, 19 pp.
RUSSIAN, per, Bukhgalterskiy Uchet, June 1968, pp 3-14.
JPRS 46189

Improving the Quality of Economic Plans, by I. A. Lebin, 9 pp.
RUSSIAN, per, <u>Byulleten' Stroitel'noy</u>
<u>Tekhniki</u>, Moscow, July 1968, pp 1-5.
JPRS 46512

New Credit System Requires Better Bank Work, by D. Kurilov, 6 pp. RUSSIAN, per. Den'gi i Kredit, No 6, 1968, pp 13-16. JPRS 46193

Report on Journal Readers' Conferences, 8 pp. RUSSIAN, per, <u>Den'gi i Kredit</u>, No 6, 1968, pp 94-96.
JPRS 46259

Management Nade More Efficient in Novosibirsk, by N. Dybenko and R. Buryndin, 5 pp. RUSSIAN, nr. <u>Ekonomicheskaya gazeta</u>, No 15, Apr 1963, pp 14-15. JPRS 45695

Incentive Funds Based on Profits, by V. Rzheshevskiy, 5 pp.
RUSSIAN, np. Ekonomicheskaya Gazeta,
21 May, 1968, pp. 17-18.
JPRS 45698

Remote Siberian Region Nakes Progress, by N. Skornyakov, 5 pp. RUSSIAN, np. <u>Skonomicheskaya gaseta</u>, No 19, May 1968, p 41. JPRS 45695 USSR Economic (Contd)

Quality Control System at L'vov Enterprises, by I. Kochevykh, Ye. Udovichenko, 7 pp. RUSSIAN, np, Ekonomicheskaya Gaseta, No 23, June 1968, p 21.

JPRS 46044

Technical Inspection Services and Product Quality, by N. Divnogortsev, P. Likhodiy, 16 pp.
RUSSIAN, np. <u>Ekonomicheskaya Gazeta</u>, Moscow, No 24, June 1968, pp 15-17.
JPRS 464

Organization, Incentives and Effects of Invention, by G. Sorokina, 8 pp. RUSSIAN, np. Ekonomicheskaya Gazeta, Moscow, No 24, June 1968, pp 27-28.

JPRS 46499

Reform in Construction work Achieved in Poland, by V. Semenov, 5 pp. RUSSIAN, np. Ekonomichaskaya Gazeta, No 26, 1968, p 41. JP:6 46031

Wasteful Destruction of Old Automobile Tires, by A. Gudimov, 6 pp.
RUSSIAN, np. Ekonomichoskaya Gezeta, No 30,
July 1968, p 39.
JPRS 46384

CEMA Official Interviewed on Current Year Trade, 5 pp. RUSSIAN, np. <u>Ekonomicheskaya Gaseta</u>, No 30, July 1968, p 44.
JPRS 46266

Soviet Assistance to Cuba in Training Cadres, by N. Kukharev, 6 pp.
MISSIAN, np. <u>Ekonomicheskaya Gazeta</u>, No 30,
July 1968, p 45.
JPRS 46266

Standard Rules Set for Enterprise Division, 7 pp.
RUSSIAN, np. Ekonomicheskaya gazeta, Moscow, No 32, August 1968, p 4.
JPRS 46420

Payment for Capital as an Economic Lever, by P. Verba, 5 pp. RUSSIAN, np. Ekonomicheskaya Gazeta, No 32, Aug 1968, p 9.
JPRS 46407

Rules for Bonuses to Domestic Services Workers, 6 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, Moscow,
No 32, August 1968, p 40.
JPRS 46420

Tambov Chemical Combine Shows Dynamic Progress, by M. Orlov, V. Yudin, 5 pp.
RUSSIAN, np. Ekonomicheskaya Gazeta, No 32,
Aug 1968, p 10.
JPRS 46384

Recommendations on Rural Construction Given, 7 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 32, Aug 1968, p 30.
PR: 46361

Links Between Suppliers and Enterprises Discussed, by B. Krasnoglazov, A. Sukhoplyuyev, 5 pp. RUSSIAN, np. <u>Ekonomicheskaya Gazeta</u>, Moscow, No 33, August 1968, p 9. JPRS 46528

Report on Manpower Conference at Tomsk, 20 pp.
RUSSIAN, np. Ekonomicheskeya Gazeta, Moscow, No 33, August 1968, p 23.
JPRS 46528

Conference on molkhos Pay Systems Held, by v. Mokhaylov, in Mudorov, 5 pp. HUSSIAH, np. gkonordohaskaya Gazeta, No 33, aug 1968, pp 30-31.

Junes 46416

haterial Intensity of Social Production Analysed, by R. Susunov, 14 pp. MISSIA:, Per. akonomichaskive Nauki, Ho 6, 1968, pp 39-47.

JPR: 46391

USSR Economic (Contd)

Differences in Urban and Rural Standard of Living, by N. Lagutin, 12 pp. RUSSIAN, per, <u>Ekonomicheskiye Nauki</u>, No 7, Jul 1968, pp 12-19.
JPPS 46,355

Alignment of Levels of Economic Development, by Yu. Kormnov, 17 pp. RUSSIAN, per, <u>Ekonomicheskiye Nauki</u>, Moscow, No 8, 1968, pp 35-45.
JPRS 46540

Consolidation Proposed for Local Industry, by D. Babichenko, 9 pp. RUSSIAN, per, Ekonomika Sovetskoy Ukrainy, No 5, 1968, pp 62-67.
JPRS 46089

Inter-Branch Balance Sheet for Ukraine Drawn Up, by V. Krashennikov, P. Nagirnyak, 18 pp. RUSSIAN, per, Ekonomika Sovetskoy Ukrainy, June 1968, pp 1-11.
JPRS 46391

Some Results of New Metallurgy Management, by V. Fomichev, 6 pp.
RUSSIAN, per, Ekonomika Sovetakoy
Ukrainy, Riev, No 6, 1968, pp 40-43.
JPRS 46451

Ukraine Increases Its Fertiliser Output, by K. Eikhnenko, 7 pp. RUSSIAN, per, <u>Ekonomika Sovetskoy Ukrainy</u>, No 6, June 1968, pp 51-55. JPRS 46384

kifficient Use of Fixed Capital in Coal Industry, by V. iikhal'skaya, A. Fedorishoheva, 11 pp. RUSUIAH, per. Kiconomika Sovetakov Ukrainy, No 6, 1968, pp 56-62.
JPRS 46379

Gas, Coal, and Cil Industry in Usbekistan, by K. Kim, 6 pp.
RESIAN, per, <u>Economica i Zhian</u>, No 4, 1968, pp 29-32.
JPRS 46088

Improving Construction Investments in Unbekistan, by R. Sarkisova, 6 pp. RUSSIAN, per, Managing 1 Enter, No 5, 1968, pp 56-59.

Jrits 46363

Fiscal Organs Must Improve Money Circulation, 9 pp.
RUSSIAN, per, Ekonomika i Zhizn, June 1968, pp 36-40.
Jrns 46391

Use of Preassembled Units in Construction, 6 pp. RUSSIAN, per, Ekonomika i Zhizn', No 6, 1968, pp 8-11.
JPRS 46408

Increased Efficiency in Construction Urged, by M. Saidov, 8 pp.
MUSSIAN, per, Ekonomika i Zhizn', No 6, 1968, pp 62-67.
JPRS 46407

Experience of Successful Building Trust, by A. Altykhov, 9 pp.
RUSSTAN, per, Ekonomika i Zhizn!, No 6, 1968, pp 68-72.
JFRS 46407

Rationing of Building Naterial Consumption, by N. Senderey, 6 pp.
RUSSIAN, per, <u>konomika i Zhizn'</u>, No 6, 1968, pp 74-76.
JFRS 46407

Kiev Power Engineers Implement Economic Raform; by V. I. Masumov, 6 pp. RUSSIAN, per, <u>Energetika i Elektrifikatsiya</u>, No 3, 1965, pp 46-49. JPRS 46,247

Role of Tax Organs in Improving Economic Efficiency, by S. Miroshchenko, 13 pp. RUSSIAN, per, Finansy SSSR, No 4, 1968, pp 3-11.
JPRS 45850

Proposals for Improving Financial Work in Belorussia, by B. Shatilo, 9 pp. RUSSIAN, per, Finansy SSSR, No 4, 1968, pp 12-17.
JPRS 45850

Role of Material Incentives in New Economic Reform, by Z. Skopina, 6 pp. RUSSIAN, per, <u>Finansy SSSR</u>, No 4, 1968, pp 29-33.
JPRS 45850

USSR Economic (Contd)

Auditing Procedures for Use of Incentive Funds, by I. Belobzhetskiy, 11 pp.
RUSSIAN, per, Finansy SSSR, No 4, 1968, pp 70-75.
JPRS 45850

魔的城下

Report on 1968 Plans of Scientific-Research Finance Institute, 6 pp. RUSSIAN, per, Finansy SSSR, No 4, 1968, pp 88-90.
JPRS 45850

Minister Plans Better Supply of Fish Products, by A. Ishkov, 6 pp.
RUSSIAN, np, <u>Izvestiya</u>, 14 Jul 1968, 2 2.
JPRS 46,342

Capital Investments and Fixed Capital in Trade, by V. I. Ivanitskiy, 30 pp. RUSSIAN, bk, Kapital'nyye Vlozheniya v Torgovle i ikh Effektivnost, 1967, pp 3-39. JPRS 46,356

Quality of Raw Material and Effectiveness of Production, by F. Vorob'yev, 9 pp. RUSSIAN, per, Kommunist Moldavii, No 6, June 1968, pp 41-47.
JFRS 46407

Intensifying Economic Reform in Latvia, by K. Tolmadzhev, 23 pp.
RUSSIAN, per, Kommunist Sovetskoy Latvii, No 6, 1968, pp 8-21.
JPRS 46193

Centralized Delivery of Fertilizers Discussed, by I. Polyanskiy, 6 pp.
RUSSIAN, per, Material no Tekhnicheskove
Snabzheniye, No 5, 1968, pp 38-41.
JPRS 46,315

Supply Organization Inventory to be Standardized, by V. Derevyanchenko, 16 pp. RUSSIAN, per, <u>Naterial no-Tekhnicheskoye</u>
Snabsheniye, June 1968, pp 74-84.

JPRS 46189

Turkmen Supply Chief Outlines Goals and Froblems, by KH. hul'batyrov, 6 pp. RUSSIAN, per. <u>Material'no-Tekhnicheskoye Snabsheniye</u>, No 7, 1968, pp 8-11.
JPRU 46407

Planner Proposes Recommendations for Supply, by P. Alekseyev, 7 pp. RUSSIAN, per, Paterial no-Tekhicheskoye Snabzheniye, No 7, 1968, pp 15-18.

JPRS 46407

Benefits of Long-Term Ties Stressed, by A. Pilipenko, G. Turkov, 9 pp. RUSSIAN, per, Naterial no-Tekhnicheskove Snabzheniye, No 7, 1968, pp 19-23. JrRS 46407

Nore Wholesale Trade in Equipment Proposed, by V. Semenov, 7 pp. RUSSIAN, per, Paterial no-Tekhnicheskoye Snabzheniye, No 7, 1968, pp 44-47.

JPRS 46407

Central Chernozem Zone to Improve Supply, by D. Vasil'yev, 10 pp. RUSSIAN, per, <u>Material'no-Tekhnicheskoye Snabsheniye</u>, No 7, 1968, pp 48-53.
JrRS 46407

Supply System Must Help Sell Surpluses, by G. Sireno, 8 pp. RUSSIAN, per, <u>Material no-Tekhnicheskoye Snabzheniye</u>, No 7, 1968, pp 77-81.
JPHS 46407

Moscow Enterprises Neet on Labor Productivity, 11 pp.
RUSSIAN, np. Moskovskaya Pravda, 23 Jul 1968, pp 1, 3.
JPRS 46,349

Results of commonic Reform in Kagakhstan, by T. Smagulov, 5 pp. RUSSIAN, per, Narodnove Khoavaystvo Kagakhstana, June 1968, pp 3-5. JPRS 46391

meed to Improve Supplies in Kasakh SSR, by A. Zhurevkov, 9 pp. MISSIAN, per, Narodnove shonyaystvo sasakhstana, June 1968, pp 58-62. JrAS 46391

Call For a Fuller Use of Natural Resources, by A. Neklyudov. 8 pp. RUSSIAN, per, Narodnove khoayaystvo Kasakhstana. No 6, 1968, pp 86-89. JPRS 46401 USSR Economic (Contd)

Management Problems Discussed, by P. Slivin, 7 pp.
RUSSIAN, per, NTO SSSR, No 3, 1968, pp 10-11.
JPRS 45857

Role of Volunteer Societies in Economic Reform, by N. Kozlov, 7 pp. RUSSIAN, per, NTO SSSR, No 3, 1968, pp 24-26. JPRS 45857

Computer Conference Called to Pool Data, Research, by N. Kovalev, 6 pp. RUSSIAN, per, NTO SSSR, Moscow, July 1968, pp 1-2.
JPRS 46466

Review of 1967 and New Tasks of Oil Workers, by V. D. Shashin, 15 pp.
RUSSIAN, per, Neftyanove Khozyaystvo, No 6, June 1968, pp 1-8.
-PRS 46270

Normative and Actual Working Family Budgets, by V. Bornycheva, 9 pp. RUSSIAN, per, Novyy Mir, Apr 1968, pp 261-266. JPRS 46265

Planning Scientific and Technical Progress, by I. Prostyakov, N. Surmach, 13 pp. RUSSIAN, per, <u>Planovoye khosyaystvo</u>, June 1968, pp 28-35. JPRS 46193

Gosplan Official Discusses Flanning Problems, by N. P. Lebedinskiy, 18 pp. RUSSIAN, per, <u>Planovove Khosyaystvo</u>, July 1968, pp 32-45. JPRS 46259

Gosplan Official Backs Territorial Planning, by M. G. Pervukhin, 15 pp. RUSSIAN, per, <u>Planovove Choryaystvo</u>, July 1968, pp 46-57. JPRS 46259

Gosplan Official Cites New Planning Computations, by Ya. A. Oblomakly, 11 pp. RUSSIAN, per, <u>Flanovove Khompaystvo</u>, July 1968, pp 58-66. JPRS 46259

More Economics Being Taught Personnel in Economy, by N. I. Mokhov, 18 pp.
RUSSIAN, per, <u>Flanovoye Khozvaystvo</u>, July 1968, pp 67-80.

Improvement of National Economic Flanning Debated, by M. Gorshkov, S. Nedoreshto, 15 pp. RUSSIAN, per, <u>Flanovoye Khozyaystvo</u>, July 1968, pp 81-90. JPRS 46259

Optimal Plan or's Branch, by V. Chernyavskiy, 5 pp.
RUSSIAN, np, Pravda, 11 May 1968, p 2.
JPRS 45698

Economic Reform in Construction Studied, by V. Malyugin, 5 pp. RUSSIAN, np. <u>Fravda</u>, 14 May 1968, p 2. JPRS 45857

Flans of State Flanning Committee Outlined, by V. Parfenov, 5 pp. RUSSIAN, np, <u>Prevda</u>, 1 June 1968, p 2. JPRS 46193

Impact of Economic Reform, by N. Petrov, 6 pp. RUSSIAN, np. Pravda, 1 June 1968, p 3. JPRS 46193

Soviet Iron and Steel Production Evaluated, by I. Kazanets, 6 pp. RUSSIAN, np, <u>Pravda</u>, Moscow, 20 July 1968, p 3. JPRS 46579

Work in Five-Day Week Must Be More Efficient, by B. Gostev, 5 pp. RUSSIAN, np. <u>Pravda</u>, 29 Jul 1968, p 2. JPRS 46,355

Increasing Capital Return Through Capital Construction, 6 pp. RUSSIAN, per, <u>Promyshlennost!</u> Belorusaii, Mirsk, July 1968, pp 9-12. JPRS 46499

Output of Mineral Fertilizers Accelerated, by I. Minevich, 5 pr. RUSSIAN, np. Rabochava Gazeta, 13 Jul 1968, p 3. JPRS 46,315

USSR Economic (Contd)

Data on the Biology and Commercial Fishing of Shrimp in the Persian Gulf, by I. V. Kaliuzhnyi, A. A. Rudnitskii.
RUSSIAN, per, Rybnoe Khoz, Vol 44, No 7, 1968, pp 12-13.
*Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Development of Deep-Sea Purse Seining, by O. I. Sakovets, V. M. Kirillov.
RUSSIAN, per, Rybnoe Khoz, Vol 44, No 7, 1968, pp 26-28.
*Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Our Experience with the Purse Scine in the Atlantic, by O. Kerkel.
RUSSIAN, per, Rybnoe Khoz, Vol 44, No 7, 1968, pp 29-31.
*Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Production Technology of Edible Minced Moat from Walleye Pollock, by L. Ia. Ertel. RUSSIAN, per, Rybnoe Khoz, Vol 44, No 7, 1968, pp 46-48. *Dept of Interior Bureau of Commercial Fisheries Branch of Foreign Fisheries

How to Increase the Economic Efficiency of Furse Seining, by L. K. Losev.
RUDSIAN, per, Rybnoe Khoz, Vol. 14t, No. 7, 1968, pp 71-73.
*Dept of Interior
Bureau of Commercial Fisheries
Franch of Foreign Fisheries

Improvements of Wage Systems for Kolkhos Members, by M. Deshkevich, 5 pp.
RUSSIAN, np, Sel'skaya Zhism, 13 June 1968, p 2.
JPRS 46087

The Efficient Utilisation of Soviet Labor Resources, by N. Zabelin, 12 pp. RUSSIAN, per, Sotsialisticheskiy Trud, No 5, May 1968, pp 20-28.

JPRS 46087

Operation of Incentive Funds Clarified, 8 pp. RUSSIAN, per, <u>Sotsialisticheskly Trud</u>, No 5, May 1968, pp 60-64.
JPRS 46087

Belorussian Industry and the New Reform, by G. Semenikhin, 7 pp. RUSSIAN, np. Sovetskaya Belorussiya, 6 Aug 1968, p 2.
JPRS 46407

Prospects for Augmenting the Labor Force, by O. Dobrokhotov, 5 pp. RUSSIAN, np. Sovetskaya Estoniya, 30 June 1968, p 2. JPRS 46087

Increased Use of Computers in the Economy, by M. Raman, 5 pp. RUSSIAN, np. Sovetskaya Latviya, Moscow, 13 July 1968, p 2. JPRS 46499

Fraudulent Operations Uncovered in Lithuania, by F. Tikhonov, 5 pp. RUSSIAN, np, Sovetskaya Litva, Vil'nyus, 1 August 1968, p 2. JPRS 46583

Proposed Improvements in Capital Construction, 7 pp. RUSSIAN, np, Sovetskaya Litva, Vil'nyus, 15 August 1968, p 1. JPRS 46512

Economic Reform Problems in Lithuania Cited, by P. Kul'vets, 5 pp. RUSSIAN, np, <u>Sovetskaya Litva</u>, Vil'nyus, 18 August 1968, p 2. JPRS 16583

Reforms in Moldavian Construction Industry, by A. Gutnik, 6 pp. RUSSIAN, np. Sovetskaya Moldavia, Kishinev, 20 August 1968, p 2. JPRS 46528 USSR Economic (Contd)

Trade Workers Meet For Conference in Leningrad, by Ye. Fisher, 7 pp. RUSSIAN, per, Sovetskaya Potrebitel'skaya Kooperatsiya, Moscow, No 8, August 1968, pp 49-51. JPRS 46500

Rural Trade to be Developed, by V. Shlemin, 7 pp.
RUSSIAN, np,
1968, p 1.
JPRS 45859

Lag in Trade Turnover Noted in Nany Areas, by A. Struyev, 6 pp.
RUSSIAN, np. Sovetskaya Torgovlya, 16 July 1968, p 2.
JPRS 46268

Imported Foodstuffs Acceptance Order Issued, by A. Nogilyanskiy, 5 pp. RUSSIAN, per, Sovetskaya Yustitsiya, No 11, June 1968, pp 21-22.

JPRS 46094

Postal Inspection Reveals Deficiencies, 5 pp. RUSSIAN, np, <u>Trud</u>, 11 July 1968, p 2. JPRS 46297

Tbilisi Conference Discusses Five-Day Work Week, 7 pp. RUSSIAN, np, <u>Trud</u>, Moscow, 3 August 1968, p 2. JPRS 46420

Inventions - Their Effect on Economic Enterprise (Descriptive Title), by V. N. Ovchinnikov, 5 pp. RUSSIAN, np. <u>Trud</u>, 12 Oct 1966. P100203668 FTD-HT-67-318

Decree of Supreme Soviet ESFSR on 1968 Flan for Light Industry, 8 pp. RUSSIAN, per, Vedomosti Verkhovnogo Sovets RSFSR. No 30 (512), 25 July 1968, pp 645-649.
JPRS 46391

Western Economists Analyse Economic Reform, by L. N. Speranskaya, 11 pp. RUSSIAN, per, <u>Vestnik Moskovskogo Universiteta</u>, No 2, Far-Apr 1968, pp 68-76. JPRS 46391

Use of Computers in Statistics Discussed, by P. Bogatyrev, 10 pp. RUSSIAN, per, <u>Vestnik Statistiki</u>, No 5, 1968, pp 75-82.

JPRS 46044

Computing Volume of Sales of Industrial Output, by M. Pessel', 12 pp.
RUSSIAN, per, <u>Vestnik Statistiki</u>, No 6, 1968, pp 14-22.
JPRS 46189

Statistics and Forecasting Scivent Demand, by B. Davidovich, R. Nazarov, 15 pp. RUSSIAN, per, <u>Vestnik Statistiki</u>, No 6, 1968, pp 23-33.

JPRS 46189

Method of Computing the Accumulation Fund, by P. Moskvin, 9 pp. RUSSIAN, per, <u>Vestnik Statistiki</u>, No 6, 1968, pp 48-53.
JPRS 46189

Improvements Needed in Wholesale Price Reform, by V. Sitnin, 14 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, No 5, 1968, pp 26-36.
JPRS 46044

Longe-Range Economic Development of Siberia, by F. Baturin, B. Orlov, 8 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, No 5, 1968, pp 146-148.

JPRS 46044

National Economic Conference Held on Reform, 11 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, No 6, 1968, pp 3-10.
JPRS 46,349

Interbranch Balance Integrated in Planning, by N. Kovalev, 18 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, No 6, 1968, pp 25-37.
JPRS 46, 349

Value Relationships of Fixed Capital Traced, by P. Pavlov, 17 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, No 6, 1968, pp 38-50. JPRS 46,349 USSR Economic (Contd)

Determining Economic Effect of Research, by S. Golosovskiy, 14 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, No 6, 1968, pp 75-85.
JPRS 46,349

Problems in Economics of Output Quality, by D. L'vov, V. Sedov, 10 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, Moscow, August 1968, pp 42-48.
JPRS 46583

CEMA Scientific-Technical Collaboration Analyzed, by A. Bykov, 10 pp. RUSSIAN, per, <u>Voprosy Ekonomiki</u>, Moscow, No 8, August 1968, pp 59-66. JPRS 46527

Economist Rejects Separate Socialist Price System, by K. Popov, 14 pp. RUSSIAN, per, Voprosy Ekonomiki, Moscow, No 8, August 1968, pp 67-75. JPRS 46527

Economic Import of Soviet Mining to the Outside World, 6 pp.
GERNAN, rpt, Wochenbericht des Deutschen Institutes fuer Wirtschaftsforschung, 11 July 1968, pp 168-170.
JPRS 46266

Political

Azerbaydzhan Party to Improve Ideological Work, 10 pp. RUSSIAN, np. <u>Bakinskiy Rabochiy</u>, Baku, 31 August 1968, p 1. JPRS 46509

Bonn's New Eastern Policy Viewed With Skepticism, by Ernst Henri, 7 pp. RUSSIAN, np. <u>Isvestiya</u>, Moscow, 15 August 1968, pp 2, 5. JPRS 46513 USSR Political (Contd)

Eternally Alive Revolutionary Theory, 15 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1968, pp 25-37.
JPRS 45699

The Roots of the Present Events in China, 15 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1968, pp 102-113.
JPRS 45699

K. Marx and F. Engels on Proletarian Internationalism, by N. Shitov, 12 pp. RUSSIAN, per, Kommunist. No 7, May 1968, pp 32-43.

JPRS 45839

Marx's Theory and the Struggle Against Contemporary Bourgeois Ideology, by T. Oyzerman, 12 pp RUSSIAN, per, Kommunist, No 7, May 1968, pp 44-54. JPRS 45839

The Embracing of a Foe, by B. Bykhovskiy, 11 pp. RUSSIAN, per, <u>Kommunist</u>. No 7, May 1968, pp 66-75. JPRS 45839

Every Communist is Responsible for the Party. The Party is Responsible for Every Communist, 10 pp.
RUSSIAN, per, Kommunist, No 7, May 1968, pp 76-84.
JPRS 45839

The Ideological Content of Economic Leadership, by V. Zaluzhnyy, 13 pp.
RUSSIAN, per, Kommunist, No 7, May 1968, pp 8595.
JPRS 45839

Political Leader of the People, 13 pp. RUSSIAN, per, Kommunist, Moscow, No 10, July 1968, pp 3-13.
JPRS 46525

A Combat Unit of the Leminist Party, by F. Ovcharenko, 17 pp.
RUSSI..., per, <u>Kommunist</u>, Moscow, No 10, July 1968, pp 36-47.
JPRS 46525

USSR Political (Contd)

Rise of Nec-Nasian in West Germany Described, by A. Blank, 14 pp. RUSSIAN, per, <u>Kommunist</u>, Moscow, No 10, July 1968, pp 78-89. JPRS 46525

Primary Party Organisations -- Basis of the CPSU, by Sh. Rashidov, 20 pp.
RUSSIAN, per, Kommunist Uzbekistana, Apr 1968, pp 22-38.
JPRS 46037

Military Approve of Central Committee CPSU International Policies, 6 pp. RUSSIAN, per, Kommunist Voorushennykh Sil, May 1968.

JPRS 46049

Communist Parties Display Wealth of Revolutionary Forms and Tactics, by A. Higolat'yev, 12 pp. RESSIAN, per, Kommunist Voorushennykh Sil, May 1968, pp 20-28.

JPRS 46049

Battle Against Bourgeois Ideology Continuing, by I. Seleznev, 10 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 13, July 1968, pp 8-16.
JPRS 46305

Bourgeois, Proletarian Lemocracy Compared, by M. Yasyukov, 13 pp. RUSSIAN, per, Kommunist Voorushennykh Sil, No 14, July 1968, pp 8-16.
JPRS 46272

Party Groups Active in Summer Troop Training, 8 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 15, 1968, pp 3-8. JPRS 46572

More Aggressive Battalion Political Work Urged, by M. Yersunov, 5 pp. RUSSIAN, np, Krasnaya Zvezda, Moscow, 10 September 1968, p 2.
JPRS 46542

USSR Political (Contd)

Results of Party Training in Moscow Oblast, by A. V. Gogolev, 8 pp. RUSSIAN, np. Leninskoye Znamya, Moscow, 30 July 1968, pp 2-3.
JPRS 46424

Komsomol to Mark Fiftieth Anniversary, by N. Rubtsov, 12 pp. RUSSIAN, per, Partiynaya Zhizn', No 11, June 1968, pp 36-44.

JPRS 46082

Party Guidance of Ideological Work Outlined, by N. Rodinov, 12 pp. RUSSIAN, per, Partiynaya Zhizn', July 1968, pp 8-15. JPRS 46256

Call for Efficiency in Party Leadership, by A. Vatchenko, 11 pp. RUSSIAN, per, Partiynaya Zhizn', July 1968, pp 18-25.
JPRS 46256

Political Prisoners in USSR are Mistreated, by A. Marchenko, 6 pp. RUSSIAN, per, <u>Posey</u>, June 1968, pp 5-7. JPRS 46255

Krasnoyarsk Kray Party Holds Meeting on Komsomol, by V. Dubkov, M. Mironov, 5 pp. RUSSIAN, np. <u>Pravda</u>, 10 June 1968, p 2. JPRS 46037

Miev Party Official Outlines Control of Culture, by A. Botvin, 6 pp. RUSSIAN, np. <u>Pravda</u>, 13 July 1968, p 2. JPRS 46198

Rashidov Speaks at Usbek Party Press Anniversary, by Sh. R. Rushidov, 5 pp.
RUSSIAN, np. <u>Prevda Vostoka</u>, 22 June 1968, p 2.
JPRS 46037

Soviet Citizens Cautioned Against Western Spies, by V. Avgustov, V. Viktorov, 13 pp. RUSSIAW, np. Sovetskays Estoniys, 3, 4, 6, 7 and 8 Aug 1968, p 5.
JPRS 46364

rarty and Government Issue Medical Decree, 5 pp. RUSSIAN, np. Sovetskaya Rossiya, 3 Aug 1968, p 1. JPRS 46365

USSR Political (Contd)

Ukrainian Communist Party Marks Anniversary, by P. Ye. Shelest, 18 pp. RUSSIAN, per, Voprosy Istorii KPSS, Moscow, July 1968, pp 7-20. JPRS 46455

Military

Innovations in Party-Political Work in Soviet Navy, by V. Grishanov, 6 pp. RUSSIAN, per. Agitator, No 12, June 1968, pp 13-15. JPRS 46081

Compensation Upon Conscription into Active or Reserve Military Service, 6 pp. RUSSIAN, per, Gosudarstvennyy Komitet Soveta Linistrov SSSR po Voprosam Truda 1 Zarabotnoy Platy — Byulleten, No 7, 1968, pp 4-8.

JPRS 46,355

Fifty Years of Soviet Armed Forces, by M. V. Zakharov, 18 pp.
RUSSIAN, bk, 50 Let Voorushennykh Sil SSSR, 1968, pp 7-12; 559-564, 579-581.
JPRS 46043

Strengthening Sergeants' Authority Discussed, 9 pp.
RUSSIAN, per, Kommunist Voorushennykh Sil,
No 6, June 1968, pp 60-64.
JPRS 46200

Monograph on Military Psychology Reviewed, by V. Karamyshev, 8 pp. RUSSIAN, per, Kommunist Voorushennykh Sil. No 6, June 1968, pp 88-92.

JPRS 46200

Military Customs and Communist Education of Staff, by A. Resnik, 8 pp. RUSSIAN, per, Kommunist Voorushennykh Sil, No 10, May 1968, pp 47-51.

JPRS 46081

Formation of the Combat Activity of Troops, by V. Kovelev, 9 pp. RUBSIAN, per, Kommunist Voorushennykh Sil. No 10, May 1968, pp 63-67.

JPRS 46081

Military Theoretician Discusses Armed Forces, by I. Grudinin, 10 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 11, 1968, pp 15-22.
JPRS 46046

New Conscription Law Propagandized by Party, by M. Semerenko, 6 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 11, 1968, pp 23-26.
JPRS 46046

Psychological Training for Troops Discussed, by V. Golovkin, 9 pp. RUSSIAN, per, Kommunist Voorughennykh Sil, No 11, 1968, pp 42-47.
JPRS 46046

Naval Indoctrination During Long Cruises, by A. Skryl'nik, 8 pp. RUSSIAN, per, <u>Kommunist Vooruzhennykh Sil</u>, No 11, 1968, pp 48-52. JPRS 46046

Benefits for Discharged Servicemen Enumerated, by Justice A. Melent'yev, Justice V. Vandyshev, 7 pp. RUSSIAN, per, <u>Kommunist Voorushennykh Sil</u>, No 11, 1968, pp 83-86. JFRS 46046

Western Forgers of World War II History Berated, by V. Sekistov, G. Korotkov, 9 pp. RUSSIAN, per, <u>Kommunist Vooruzhenrykh Sil</u>, No 12, June 1968, pp 8-14. JPRS 46200

Commander -- Subordinate Relationship Examined, by N. Tabunov, 9 pp. RUSSIAN, per, Kommunist Voorushennykh Sil, No 12, June 1968, pp 15-21.

JPRS 46200

Elements of Command Authority, by M. Timofeyechev, 9 pp.
RUSSIAN, per, Kommunist Voorushennykh Sil, No 14,
July 1968, pp 24-29.
JPRS 46269

Soviet Air Force Achievements Briefly Outlined, 13 pp.
RUSSIAN, per, Kommunist Voorushennykh Sil, No 14, July 1968, pp 30-35.
JPRS 46269

USSR Military (Contd)

Role of Political Affairs Deputy in Naval Landings, by Kh. Gimadeyev, 8 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 14,
July 1968, pp 51-55.
JPRS 46269

Defense Ministry Award-Winning Books Reviewed, by V. Kazarinov, 11 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 14, July 1968, pp 88-92. JPRS 46269

Military Policy Discussed From Economic Aspect, by Cherednichenko, 11 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 15, 1968, pp 9-16.
JPRS 46572

Training and Equipment of Tank Troops Reviewed, 9 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 15, 1968, pp 21-24.
JPRS 46572

Social Sciences Stressed For Combat Engineers, by V. Serebryannikov, M. Morozov, 8 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 15, 1968, pp 38-42. JPRS 46572

Letters to Editors Stress Troop Discipline, 10 pp. RUSSIAN, per, Kommunist Voorughennykh Sil, Moscow, No 15, 1968, pp 43-47. JPRS 46572

Airborne Troops Need Psychological Training, by L. Grimak, 10 pp. RUSSIAN, per, Kommunist Voorughennykh Sil, Moscow, No 15, 1968, pp 61-65.
JPRS 46572

Military Museum Traces History of Border Troops, by F. Likhachev, 12 pp. RUSSIAN, per, Kommunist Voorushennykh Sil, Moscow, No 15, 1968, pp 66-71. JPRS 46572

History and Achievements of Air Force Described, by N. Goncharov, 10 pp. RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 15, 1968, pp 77-81.
JPRS 46572

Importance of Officer Candidate Platoon Leaders, by Maj. Gen. P. Mel'nikov, 5 pp. RUSSIAN, np., Krasnaya zvezda, 16 May 1968, p 2.
JPRS 45708

The Trench in Nuclear Warfare, by V. Ogorodnikov, 5 pp. RISSIAN, np. Krasnaya Zvezda, 30 May 1968, p 3. JPRS 45858

Combat Realism Required for Naval Training, by V. Germanovich, 5 pp. RUSSIAN, np. <u>Krasnaya Zvezda</u>, 1 June 1968, p 2. JPRS 45858

Realistic Air Training Stressed, by P. Zagaynyy, 5 pp. RUSSIAN, "P. Krasnaya Zvezda, 5 June 1968, p 1. JPRS 45858

Tactical Anti-Submarine Exercise Described, by O. Baronov, G. Savichev, 7 pp. RUSSIAN, np. <u>Krasnaya Zvezda</u>, 20 June 1968, p l. JPRS 46081

Role of Air Force Firing Ranges Defined, by S. Zhukovskiy, 5 pp. RUSSIAN, np. <u>Krasnaya Zvesda</u>, 20 June 1968, p 2. JPRS 46081

Air Chasti Apply Scientific Organization of Labor, by S. Gribanov, 5 pp. RUSSIAN, np. <u>Krasnava Zvesda</u>, 27 June 1968, p 2. JPRS 46081

Tourism to be Encouraged Among Military Personnel by F. Malykhin, 5 pp. RUSSIAN, np. <u>Krasnava Zvesda</u>, 20 June 1968, p 4. JPRS 46081

USSR Military (Contd)

Member of Communist Party Commission Discusses Expulsion of Officers from Party for Misappropriation of Funds and Materials, by A. Shmalev, 5 pp. RUSSIAN, np, <u>Krasnaya Zvezda</u>, 29 June 1968, p 2. JPRS 46081

Soviet Missileman Anatoliy Ignat'yevich Dormidontov Receives Award for Combat and Political Training, by S. Mikhaylov, 5 pp. RUSSIAN, np. Krasnaya Zvezda, 30 June 1968, p 4. JPRS 46081

Importance of Flexibility and Creativity in Tactics, by A. Dzyza, 5 pp.
RUSSIAN, np. <u>Krasnaya Zvezda</u>, 19 Jul 1968, p 2.
JPRS 46,246

Anniversary of Battle of Kursk Heralded, by M. V. Zakharov, 7 pp. RUSSIAN, np. Krasnaya Zvezda, 4 Aug 1968, p 2. JPRS 46,246

Training in the Psychology of Troop Morale, by A. Sidorenko, 5 pp. RUSSIAN, np, <u>Krasnaya Zvezda</u>, Moscow, 7 August 1968, p 2. JPRS 46542

The Tank and a Nuclear Explosion, by A. Khersonskiy, L. Shmelev, 5 pp. RUSSIAN, np, <u>Krasnaya Zvezda</u>, Moscow, 8 August 1968, p 3. JPRS 46542

On Board a Strategic Bomber Over the Arctic, by I. Dynin, 5 pp. RUSSIAN, np. Krasnaya zvezda, Moscow, 18 August 1968, p 2.
JPRS 46501

Soviet Naval Force on Cruise in the Tropics, by N. Khovrin, 5 pp. RUSSIAN, np. <u>Freenaya Zvesda</u>, 20 Aug 1968, p 2. JPRS 46378

Processing of Aerial Photographs Important, by V. Zhukov, 6 pp. RUSSIAN, per, Kryl'ya Rodiny, 2 Aug 1968, pp 11-12. JPRS 46,246

Lessons of World War Two and Preserving Peace, by D. Lobanov, 5 pp.
RUSSIAN, np. Moskovskaya Pravda, 22 Jun 1968, p 2.
JPRS 46,359

New Materials and Designs for Tanks Discussed, by Ye. Kosyrev, 16 pp. RUSSIAN, per, Nauks i Zhizn', No 5, 1968, pp 39-44. JPRS 46081

Manual on Political Work in Army and Navy, by I. S. Mareyev, 27 pp.
RUSSIAN, mono, Partiyno-politicheskaya Rabota
v Sovetskoy Armii i Flote, pp 3-16; 441-445,
447.
JPRS 46,246

Marshall Vershinin examines Air Force Potential, by K. Vershinin, 5 pp. RUSSIAN, np. <u>Pravda</u>, 18 Aug 1968, p 2. JPRS 46378

Achievements of Soviet Tank Troops Reviewed, by Pavel Poluboyarov, 5 pp. RUSSIAN, np, Sovetskaya Latviya, Riga, 8 September 1968, p 2. JPRS 46542

Soviet Armored Troops Praised by General Getman, by A. Getman, 5 pp. RUSSIAN, np, <u>Sovetskiy Patriot</u>, Moscow, 8 September 1968, p 1. JPRS 46542

Our Modern Navy on the World's Oceans, by V. M. Grishanov, 7 pp. RUSSIAN, per, <u>Sovetskiy Voin</u>, Jul 1968, pp 1-3. JPRS 46,359

Future Submariners Begin Their Training, by Lev Khakhalin, 3 pp. RUSSIAN, per, <u>Sovetskiy Voin</u>, Jul 1968, pp 9-12. JPRS 46,359

Discussion of Problems Facing Army Theatre, 9 pp.
RUSSIAN, per, <u>Sovetskiy Voin</u>, Jul 1968, pp 27-29.
JPRS 46,359

USSR Military (Contd)

Amateur Performances for the Military, by A. Kapilov, 6 pp.
RUSSIAN, per, Sovetskiy Voin, Jul 1968, pp 38-39.
JPRS 46,359

Modern Development of Aircraft Weaponry, by Ye. Arkad'yev, Ye. Vadimov, 10 pp. RUSSIAN, per, <u>Tekhnika i Vooruzheniye</u>, Moscow, No 8, <u>1968</u>, pp 22-25. JPRS 46542

Handbook for a Potential Draftee in the USSR, by N. A. Beshkarev, V. T. Yemel'yanov, 6 pp. RUSSIAN, bk, V Pomoshch Doprizyvniku, 1967. JPRS 46181

Poor Work by DOSAAF Committees Condemned, by V. Sysoyev, 8 pp.
RUSSIAN, per, Voyennyye Znaniya. No 5, 1968, pp 6-8.
JPRS 46036

Protection Against Nuclear Shock Wave, by V. Chumakov, 5 pp.
RUSSIAN, per, Voyennyve Znaniva, No 5, 1968, pp 26-27.
JPRS 46036

Functions of a Civil Defense Training Point, by A. Novgorodov, 7 pp.
RUSSIAN, per, Voyennyve Znaniva, No 5, 1968, pp 30-31.
JPRS 46036

A Faculty of Organizers of Defense Work, by G. Tomilin, 5 pp.
RUSSIAN, per, <u>Voyennyye Znaniya</u>, No 5, 1968, pp 38-40.
JPRS 46036

Thirtieth Anniversary of Soviet Navy, 7 pp. RUSSIAN, per, <u>Voyennyye Znaniva</u>, No 7, 1968, pp 1-2.
JPRS 46378

Captain of a Missile Cruiser Speaks Out, 6 pp. RUSSIAN, per, <u>Voyennyve Znaniva</u>, No 7, 1968, pp 8-9.
JPRS 46378

Role of Komsomol in Armed Forces Listed, by N. Krechetnikov, 8 pp. RUSSIAN, per, <u>Voyennyye Znaniya</u>, No 7, 1968, pp 12-13.
JPRS 46378

Role of Party Groups in Civil Defense Exercises, by K. Zaporozhchenko, 5 pp. RUSSIAN, per, Voyennyye Znaniya, No 7, 1968, pp 18-19.
JPRS 46378

Methods of Breaking Trails Detailed, by K. Boroday, 5 pp. RUSSIAN, per, <u>Voyennyye Znaniya</u>, No 7, 1968, pp 23-24.
JPRS 46378

Routing of Civil Defense Traffic Explained, by A. Nebol'sin, S. Bachinin, 9 pp. RUSSIAN, per, Voyennyye Znaniya, No 7, 1968, pp 26-27.

JPRS 46378

Daily Schedule of Soviet Solider Cutlined, by V. Grinevskiy, 7 pp. RUSSIAN, per, <u>Voyennyye Znaniya</u>, No 7, 1968, pp 28-29.
JPRS 46378

Komsomol Activities Among Youth Reviewed, by Yu. Nazhivin, 6 pp. RUSSIAN, per, <u>Voyennyye Znaniya</u>, No 7, 1968, pp 34-35. JFRS 46378

Work of a Kolkhos DOSAAF Organisation, by V. Naksimov, 5 pp. RUSSIAN, per, <u>Voyennyye Znaniya</u>, No 7, 1968, pp 38-39.
JPRS 46378

Psychological Training of Soldiers Is Important, by Ryabov, 7 pp. RUSSIAN, per, <u>Voyennyye Znaniya</u>, Moscow, No 8, August 1968, pp 4-5. JPRS 46542

New Personnel Carrier Described, by Ye. Orekhov, 9 pp. RUSSIAN, nr. Za rulem, May 1968, p 11. JPRS 45858 USSR Geographic

Geographic Prognosis, by Yu. G. Saushkin, 16 pp.
RUSSIAN, per, <u>Priroda</u>, Moscow, No 7, 1968, pp 35-42.
JPRS 46574

Sociological

Transcaucasian Literary Critics: Fore Reports, 8 pp.
RUSSIAN, np. Bakinskiy Rabochiy, 31 Fay and 1
June 1968, p 3.
JPRS 46037

Staff Personnel Bonuses Under New Reform, 7 pp.
RUSSIAN, per, Gosudarstvennyy Komitet
Soveta Ministrov SSSR po Voprosam Truda
Zarabotnoy Platy -- Byulleten', Moscow,
No 6, 1968, pp 3-8.
JPRS 46420

Bonuses to State Insurance Staff
Personnel, 5 pp.
RUSSIAN, per, Gosudarstvennyy Komitet
Soveta Ministrov SSSR po Voprosam Truda
1 Zarobotnoy Platy -- Byulleten', Moscow,
No 6, 1968, pp 17-20.
JPRS 46420

Proposals Made to Overcome VUZ Teacher Shortage, by A. Daynovskiy, K. Daynovskaya, 9 pp. RUSSIAN, per, <u>Ekonomicheskiye Nauki</u>, Moscow, No 7, July 1968, pp 50-56/ JPRS 46532

Annual Vacation for Female Workers, by B. N. Khomelyanskiy, 8 pp.
RUSSIAN, per, <u>Isvestive Abademii Hauk USSR</u>.
Seriya Chehohestvennykh Nauk, No 1, Vol 1,
1968, pp 114-117.
JPRS 46087

USSR Sociological (Contd)

More Socialist Reality of Art Urged, by B. Safronov, 7 pp. RUSSIAN, np, <u>Krasnaya zvezda</u>, 19 May 1968, pp 2-3. JPRS 45708

Mischarge from Work for Unfitness, by V. I. Smolyarchuk, 12 pp.
RUSSIAN, per, Moscow Sovetskove Gosudarstvo 1
Pravo, No 5, May 1968, pp 45-52.
JPRS 46087

Response to Article on Youth Holiday Music, by V. Goncharenko, 6 pp.
RUSSIAN, np, Fravda Ukrainy, 4 Aug 1968, p 3.
JPRS 46402

Belorussian Teachers' Successes Reviewed, by A. Kontsevaya, 5 pp. RUSSIAN, np, <u>Sovetskaya Belorussiya</u>, Minsk, 1 September 1968, p 1. JPRS 46582

Growth and Improvement of Soviet Art Education, by Ye. Furtseva, 8 pp. RISSIAN, np, Sovetskaya Kul'ture, 1 Aug 1968, pp 2-3.

Jean 46369

Work on Improving Secondary General Education by M. P. Kashin, 17 pp. RUSSIAN, per, <u>Bovetskaya Pedagogika</u>, Feb 1968, pp 9-20. JPRS 45693

Economic Foundations of Vocational Orientation for the Youth, by V. V. Krevnevich, 17 pp. RUSSIAN, per, Sovetskaya Pedagogika, Feb 1968, pp 44-55.
JPRS 45693

Problems in the Work of the Higher Pedagogical School, by A. Ye. Dmitriyev and P. I. Pidkasistyy, 17 pp. RUSSIAN, per, Sovetskaya Pedagogika, Mar 1968, pp 84-95.
JPRS 45693

USSR Sociological (Contd)

The Subject of the Science of Social Administration, by G. I. Petrov, 11 pp.
RUSSIAN, per, Sovetskoye gosudarstvo i pravo, Moscow, June 1968, pp 78-82.
JPRS 46576

Sociology Investigates Reasons for Crimes, by A. A. Gertsenzon, 13 pp. RUSSIAN, per, Sovetskoye gosudarstvo i pravo, Moscow, No 6, 1968, pp 92-101.
JPRS 46428

Indoctrinating the Will of School Children, by M. G. Vinogradova, 10 pp.
RUSSIAN, per, Sredneye Spetsial*noye Obrazovaniye, No 5, 1968, pp 42-45.
JPRS 46,346

Factory Workers' Social Development Discussed, by N. Mudrov, I. Rumova, 5 pp. RUSSIAN, np. Trud, 25 Jul 1968, p 2. JPRS 46,355

Better Conditions Urged For Vocational Trainees, by V. Sayushev, 6 pp. RUSSIAN, np, <u>Trud</u>, Hoscow, 17 August 1968, p 2. JPRS 46532

Key Problems in Teacher Training Discussed, 7 pp. RUSSIAN, np. Uchital'skaya Gaseta, 11 July 1968, pp 1-2.
JPRS 46178

Increasing the Effectiveness of Investigations, by V. N. Petrov, N. M. Kuz'min, 9 pp. RUSSIAN, per, <u>Vestnik Vysshev Shkolv</u>, No 5, 1968, pp 32-37.

JPRS 46,346

Information Center of the Higher School, by h. V. Zaletayev, 5 pp.
RUSSIAh, per, <u>Vestnik Vysshav Shkolv</u>, No 5, 1958, pp 41-44.
JPRS 46,346

A Course on Atomic Technology in All Agricultural Higher Schools, by V. V. Rachinskiy, 7 pp.
RUSSIAH, per, <u>Vestnik Vysahev Shkoly</u>, No 5, 1968, pp ??-?9.
JPRS 46,346

USSR Sociological (Contd)

Protecting USSR Patent Interests Abroad, by V. M. Feygel'son, 10 pp.
RUSSIAN, per, Voprosy Izobretatelstvo,
Moscow, No 7, July 1968, pp 11-16.
JPRS 46502

Biographic

Riographic Information on Mongolian Personalities, 11 pp. MONGOLIAN, np, Various Sources, 1968. JPRS 45836

EASTERN EUROPE

Economic

Congress of Consumer Cooperatives Held in Tirana, 13 pp. ALBANIAN, rpt, 25 Apr 1968. JPRS 45685

Improper Use of Investment Funds Condemned, by Andrea Nako, Stavri Qiriako, 5 pp. ALBANIAN, mp, Bashkimi, Tirana, 25 July 1968, pp 2-3.
JPRS 46570

Determining Standards, Technical Conditions, 7 pp.
ALBANIAN, np. Gazeta Zyrtare, Tirana, No 2, 29 Feb 1968, pp 15-19.
JPRS 46445

Trade Deficits and Surpluses Create Problems, by Teodor Sterio, 5 pp.
ALEANIAN, np, Zeri i Popullit, 5 Jul 1968, p 2.
JPRS 46,325

Train Cadres to Meet Industrial Demands, by Vangjel Kreka, Rexhep Shehu, 5 pp. ALBANIAN, np. Zeri i Popullit, Tirana, 23 July 1968, p 3.
JPRS 46439

Eastern Europe Economic (Contd)

Compulsory Insurance Needed in New System, by Dimitur Velchev, 10 pp. BUIGARIAN, per, Finansi i Kredit, Jul 1968, pp 3-11.
JPRS 46,354

Management Urged to Improve Executive Abilities, by Docent Zdravko Zlatanov, 8 pp.

BUIGARIAN, np, <u>Ikonomicheski Zhivot</u>, 13 June 1968, pp 1, 2, 3.

JPRS 46,325

General Review Given of Power Development, by Andrey Denchev, 7 pp. BUIGARIAN, np, <u>Ikonomicheski Zhivot</u>, 11 Jul 1968, pp 1, 5. JPRS 40,325

Socialist States Build Trade Relations, by Tsonyu Mutafchiev, 11 pp. BUIGARIAN, per, Novo Vreme, Sofia, No 8, August 1968, pp 116-121. JPRS 46514

Automobile Production in Bulgaria Discussed, by Vladimir Yotov, Ivan Pankov, 12 pp. BULGARIAN, per, <u>Planovo Stopanstvo</u>, No 6, June 1968, pp 30-40. JPRS 46,325

Patent Organization and Tasks Outlined, by Vasil Vasilev, 5 pp.

BUIGARIAN, per, Rationalizativa i standartizatsiva, Sofia, No 6, 1968, pp 25-28.

JPRS 46570

Good Financial Policies Require Peoples' Support, by Miroslav Roudelka, 9 pp. CZECH, per, <u>Ekonomicka Revue</u>, Prague, June 1968, pp 256-261. JPRS 46570

Discussion of Ota Sik Article on Czechoslovak Economic Problems, by Jaroslav Suba and Lubos Hejl, 15 pp.

CZECH, np, Hospodarske Noviny, 26 Apr 1968, pp 6-9.

JPRS 45685

Yugoslavia, Poland hight Serve as Examples, by Jan Vojtko, 7 pp. CZECH, np. Hospodarske Noviny, 24 hay 1968, p 8. JPRS 45887

Czech-Soviet Trade Relations Discussed, by Vitezslav Vinklarek, 10 pp. CZECH, np, Hospodarske Noviny, June 1968, pp 12-13.
JPRS 46031

Kubalek Discusses Foreign Economic Relations, by Jaromir Kubalek, 23 pp. CZECH, np. Hospodarske Noviny, 9 Aug 1968, Supplement pp 1-8.

JPRS 46,348

Economic Directive of the Government for 1969, 32 pp. CZECH, np. Hospedarske Noviny, 9 Aug 1968, pp 1, 8-11.
JPRS 46,348

Action Program for Development of Foreign Trade, 27 pp.

CZECH, per, Noviny Zahranicniho Obchodu, Vol 6, No 25, 19 June 1968, pp 1-16.

JPRS 45887

Czech Workers Help Consolidate National Economy, 9 pp. CZECH, np, <u>Rude Pravo</u>, Prague, 6 September 1968, pp 1, 5. JPRS 1,6570

Agricultural Wages of Czechoslovakia, West Compared, by Josef Kraus, 5 pp. CZECH, np. Socialisticke Zemedelstvi, Prague, 19 July 1968, p 5.
JPRS 46514

New Guidelines for Foreign Trade Described, by Miroslav Naruska, Vladimir Novacek, 17 pp. CZECH, per, Zahrenichi Obchod, No 5, May 1968, pp 14-18.
JPRS 46031

Grain Production Has Short, Long-Term Goals, by D. Ebert, 9 pp.
GERMAN, per, Feldwirtschaft, Jun 1968, pp 248-250.
JPRS 46,284

Eastern Europe Economic (Contd)

Decree Details State Industry Credit Principles, 19 pp. GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, East Berlin, Part II, No 82, 31 July 1968, pp 653-660. JPRS 46570

Trade Fund Levy is Socialist Management Tool, by Hans-Joachim Grasowski, 13 pp. GERMAN, per, <u>Der Handel</u>, June 1968, pp 246-260. JPRS 46,325

Bloc Trade Agreements With Foreign Countries, 7 pp. GERMAN, rpt, Marktinformationen, East Berlin, 22 July 1968, p 3. JPRS 46439

Walter Ulbricht Spearheads Economic Development, by Wolfgang Berger, 5 pp. GERMAN, np. Neues Deutschland, 6 Jun 1968, p 4. JPRS 45887

1967 Standardization Deeds, 1968 Tasks Detailed, by Nurt Wendt, 14 pp.
GERMAN, per, Standardisierung, May 1968, pp 186191.
JPRS 46338

Training of Standardization and Metrology Cadres, by V. M. Ogryskov, 8 pp.
GERMAN, per, Standardisierung, East Berlin, No 6, 1968, pp 263-266.
JPRS 46499

Analysis Compares 1960, 1966 Industry Production, by Gunter Hartig, 14 pp.

GERMAN, per, <u>Statistische Fraxis</u>, Vol 23, No 7,
Jul 1968, pp 371-375.

JPRS 46,325

Agricultural Production, Efficiency and Indexes Rise, by Berthold Thoms, Benno Rauch, 15 pp. GERMAN, per, Statistische Praxis, Vol 23, No 7, Jul 1965, pp 375-379.

JPRS 46,325

Pension Massures Cause Rise in Consumption, by Mather Matterne, 8 pp. GERMAN, np. Die Wirtschaft, 15 May 1968, p 10. JPRS 45835

Factors Causing Fluctuation in Production Studied, 12 pp. GERIAH, np. Die Wirtschaft, 26 June 1968, pp 20-21. JFRS 46393

Increase Urged in Machine Tool Industry, by Schuetze, 12 pp.
GERMAN, per, <u>Die Wirtschaft</u>, Berlin,
No 27, 3 July 1968, pp 19-20.
JPRS 46514

Official Explains Development of Economic System, by Harry Bretschneider, 9 pp. GERLAL, np. Die Wirtschaft, 11 July 1968, pp 7-8. JPRS 46338

Stability of the East German Mark Evaluated, by Konrad Lammich, ? pp. GERMAN, np, <u>Die Wirtschaft</u>, 11 Jul 1968, p 20. JFRS 46,354

New Criteria For Accounting Current Assets, by Gerhard Schmidt, 6 pp. GERMAN, np, <u>Die Wirtschaft</u>, East Berlin, 18 July 1968, p 19. JPRS 46570

The Trade Association as a New Form of Partnership, by Walter Burian, 5 pp.
GERMAN, np, Die Wirtschaft, East Berlin, 25 July 1968, p 9.
JPRS 46439

Shift Work Necessary for Improved Efficiency, by Horst Klar, 5 pp. GERMAN, np. <u>Die Wirtschaft</u>, East Berlin, 25 July 1968, p 17.
JPRS 46439

Price Increases Affect Investment Activity in GDR, 9 pp. GERMAN, per, Wochenbericht, West Berlin, 22 August 1968, pp 207-210. JPRS 1,6514 Eastern Europe Economic (Contd)

Profit Interest Affects Economic Regulators, by Endre Megyeri, 8 pp. HUNGARIAN, np, Figyelo, Budapest, 17 July 1968, p 3.

JPRS 46514

Foreign Trade Slows in the First Half of 1968, by Sandor Czeitler, 5 pp. HUNGARIAN, np, Figyelo, Budapest, 30 July 1968, pp 1, 3.
JPRS 46439

Foreign-Exchange Credits Promote Export Expansion, by Bela Aramer, Gyorgy Takacs, 6 pp. HUNGARIAN, np, <u>Figyelo</u>, 31 July 1968, p 3. JFRS 46393

Domestic Trade Increases in First Half 1968, by Gy. H., 6 pp. HUNGARIAN, np, Figyelo, Budapest, 7 August 1968, p 2.
JPRS 46514

Industrial Hopes for Third Five-Year Flan Detailed, by Z. Tatai, 12 pp.
HUNGARIAN, per, Foldarjzi Kozlemenyek, No 4, 1967, pp 343-349.
JPRS 46031

Water Management Presents Problems For Future, by Imre Degen, 16 pp. HUNGARIAN, per, Hidrologiai Kozlony, Budapest, Vol 48, No 6, June 1968, pp 241-248. JPRS 46570

Growth of Pharmaceutical Industry Detailed, by Laszlo Orosz, 8 pp. HUNGARIAN, per, <u>Ipargazdasag</u>, Budapest, May 1968, pp 43-46. JPRS 46439

Program of Industrial Economy Committee Reviewed, 7 pp.
HUNGARIAN, per, <u>Ipargazdasag</u>, Budapest,
July 1968, pp 11-13.
JPRS 46421

MAV Goals and Investments for 1968 Outlined, by Lajos Hollo, 7 pp. nUNGARIAN, per, Kozlekedesi Kozlony, 2 June 1968, pp 417-419. JPRS 46393

Price Supports Initiated for Specialized Plants, by Ivan Berend, Gabor Gela, 8 pp. HUNGARIAN, np, Magyar Mezogazdasag, Budapest, 31 July 1968, pp 3-4. JPRS 46439

Hungarian Petroleum Products Serve Consumers, 10 pp.
HUNGARIAN, per, <u>Muszaki Elet</u>, 30 Nov 1967, pp 30-31.
JPRS 45685

Hungarian National Bank Has New Economic Roles, by Ivan Meznerics, 6 pp. HUNGARIAN, per, <u>Penzugyi Szemle</u>, May 1968, pp 433-436.
JPRS 46,354

Social Impact of Economic Reform is Examined, by Gyula Kallai, 13 pp.
HUNGARIAN, per, <u>Tarsadalmi Szemle</u>, June 1968, pp 6-14.
JrRS 46393

Larly months of Economic Guidance are Encouraging, by Jozsef Balint, 13 pp.
nUNGARIAN, per, <u>Tarsadalmi Szemle</u>, June 1968, pp 15-23.
JPRS 46393

Regional Economic Guidance Tasks Outlined, by Gyula Jedlicska, 11 pp. INMIGARIAN, per, Tarsadalmi Szemle, June 1968, pp 59-66.
JIRS 46393

Living Standards Are Part of Economic Policy, by Janos Keseru, 12 pp.
HUNGARIAN, per, Tarsadalmi Szemle,
Budapest, July 1968, pp 3-11.
JPRS 46439

Eastern Europe Economic (Contd)

New Principles Set For Creating Plant Fund, by Miroslaw Boguslawski, 7 pp. POLISH, np. Gazeta Handlowa, Warsaw, 2 August 1968, p 2. JPRS 46570

Polish Trade with Socialist Countries Analyzed, by Tadeusz Perkowski, 8 pp. POLISH, per, <u>Handel Zagraniczny</u>, No 5/6, 1968, pp 189-192.

JPRS 46040

Editor Criticizes Views of Liberal Economist, by Jerzy Chlopecki, 11 pp. POLISH, np. Kierunki, 16 June 1968, p 3. JPRS 46341

Domestic Market Supply Problems Analyzed, by Ryszard Chelinski, 20 pp. POLISH, per, Nowe Drogi, Warsaw, July 1968, pp 16-31. JPRS 46439

'Polityka' Criticizes Yugoslav Economic Reforms, by Jerzy Kleer, 11 pp. POLISH, np, Polityka, No 19, 11 May 1968, p 8. JPRS 45689

Lechowicz Discusses 1968 Local Industry Goals, by Wlodzimierz Lechowicz, 6 pp. POLISH, per, <u>Przeglad Drobnej Wytworczosci</u>, No 11, Jun 1968, pp 1-3.
JPRS 46,325

Lechowicz Reviews Small-Scale Industry Results, by Wlodzimierz Lechowicz, 10 pp. POLISH, per, <u>Przeglad Drobnej Wytworczosci</u>, Jul 1968, pp 1-7. JPRS 46,325

Review of 1967 Trade With Developing Countries, by S. Brooska, 6 pp. POLISH, np. Rynki Zagraniczne, Warsaw, 18 May 1968, p 3. JPRS 46439

Austrian-Socialist Elec Foreign Trade, by Celina Tyszko, 6 pp.
POLISH, np, Rynki Zagranicane, 20 June 1968, p 3.
JPRS 46338

Polish 1968 Foreign Trade Exchange Increase, by Stanislaw Brzoska, 5 pp. POLISH, np, Rynki Zagraniczne, Warsaw, 10 August 1968, p 3. JPRS 46439

Markist View is Vital to Economic Research, by Seweryn Zurewicki, 5 pp. POLISH, np. Trybuna Ludu, 14 June 1968, p 3. JPRS 46031

1968 Economic Plan Semiannual Results Detailed, 24 pp. POLISH, np., Trybuna Ludu, 24 Jul 1968, pp 4-5. JPRS 46,284

Statute on Workers' Self-Managements Discussed, 6 pp. POLISH, mp, Tribuna Ludu, 8 August 1968, pp 1, 4.
JPRS 46570

1967 Fuel, Electric Power Consumption Tallied, by Jan Ryszka, 5 pp.
POLISH, per, <u>Wiadomosci Statystyczne</u>, Jul 1968, p 39.
JPRS 46,284

Investments in Light, Food Industries Analyzed, by H. Weber, 7 pp. POLISH, per, Zagadnienia i Materialy, No 11, 22 May-31 June 1968, pp 23-27.

JPRS 46040

Changes in State Farm Bonus Fund Presented, by Jan Stapor, 6 pp. POLISH, per, Zagadnienia i Materialy, 3-16 Jul 1968, pp 10-14.
JPRS 46,284

Chemical Industry's 1971-1975 Prospects
Described, by Wladyslaw Dudzinski, 12 pp.
POLISH, np. <u>Zycie Gospodarcze</u>, 7 Jul 1968,
pp 1-2.
JPRS 46,348

Krauss Outlines 1971-1975 Metallurgy Goals, by Krzysztof Krauss, 13 pp. POLISH, np. Zycie Gospodarcze, Warsaw, 18 August 1968, pp 1, 4. JPRS 46570

Eastern Europe Economic (Contd)

Reasons for Poor Balance of Rumanian Foreign Trade Noted, by Mireslaw Dyner, 7 pp.
POLISH, np. Zycie Gospodarcze, Warsaw, No 35, 1 September 1968, p 6.
JPRS 46570

Bulgaria, CEMA Cooperation Discussed, by Karol Szwarc, 6 pp. POLISH, np. <u>Zycie Gospodarcze</u>, No 36, 8 September 1968, p 5. JPRS 46570

Measures to Improve Production Financing Proposed, by Gheorghe Popescu, 13 pp. RUMANIAN, per, <u>Finante si Credit</u>, Apr 1968, pp 3-14. JPRS 46040

Financial Organs Help Judet People's Councils, by Armand Popper, 6 pp.
RUMANIAN, per, Finante si Credit, Apr 1968, pp 31-35.
JPRS 46040

Responsibilities of the Tax Organization Increased, by Costache Iancu, 5 pp.
RUMANIAN, per, <u>Finante si Credit</u>, Apr 1968, pp 36-39.
JPRS 46040

Profit Seen as Incentive to Economic Efficiency, by Vasile Gheorghiu, 15 pp. RUMANIAN, per, <u>Finante si Credit</u>, No 5, May 1968, pp 14-24.

JPRS 46040

Perfecting of Investment Financing Needed, by Ioan L. Ciolan, 13 pp. RUMANIAN, per, Finante si Credit, No 5, May 1968, pp 25-33.
JPRS 46040

Inadequate Auditing Fractices Examined, by Gheorghe Borcan, 9 pp.
RUMANIAN, per, Finante si Credit, June 1968, pp 11-16.
JPRS 46393

Opportunities for Increased Bartering Presented, by Ion Losoiu, 10 pp. RULANITAN, per, Finante si Credit, June 1968, pp 25-32.

JPRS 46393

Distribution of National Income Analyzed, by I. Nistor, C. Tulai, 9 pp. RUWANIAN, per, Finante si Credit, June 1968, pp 57-62.
JFRS 46393

New Legislation Establishes Special Fund, by D. Zaharia, 5 pr. RUMANIAN, per, <u>Inventii si Inovetii</u>, Jun 1968, pp 201-202. JPRS 46,348

Benefits of Socialist Democracy Outlined, by Gh.

M. Niculescu, 15 pp.

RUMANIAN, per, Probleme Economice, May 1968, pp 1527.

JPRS 46040

Improved Exploitation of by M. Bercovici, 12 pp.
RUMANIAN, np, Viata Economical Pressure Viata Economical Press

Foreign Trade Pursues New Policies in 1968, by St. Minastireanu, 11 pp.
RUMANIAN, per, <u>Probleme Economice</u>, May 1968, pp 52-60.
JPRS 46040

Need for Trade with Capitalist Nations Stressed, by Al. Puiu, O. Ciulea, 14 pp. RUMANIAN, per, Probleme Economice, May 1968, pp 61-72. JPRS 46040

Energy Resources in Rumania Considered, by Martin Bercovici, Al. Szmuk, 12 pp. RUMANIAN, per, <u>Probleme Economice</u>, Bucharest, No 7, July 1968, pp 3-13. JFRS 46439

Economic Efficiency Growth Seen in Coal Industry, by M. Enache, 14 pp. RUMANIAN, per, Probleme Economice, Bucharest, No 7, July 1968, pp 26-37. JPRS 46439

Improvement of Export Structure Outlined, by D. Usturoi, 10 pp. RUMANIAN, per, <u>Probleme Economice</u>, Bucharest, July 1968, pp 48-56.
JPRS 46439

Eastern Europe Economic (Contd)

Agricultural Growth Depends on State Management, by Gh. Anghel, L. Gutescu, 11 pp.
RUMANIAN, per, Probleme Economice, Bucharest, July 1968, pp 112-118.
JPRS 46439

;

Contributing Factors in Party Leadership Discussed, by Paul Radovan, 12 pp.
RUMANIAN, per, <u>Revista</u> de Filozofie, Bucharest,
July 1968, pp 825-834.
JPRS 46445

Improved Exploitation of Energy Resources, by M. Bercovici, 12 pp.
RUMANIAN, np. Viata Economica, 10 May 1968, pp 8-9.
JPRS 45685

Agricultural Enterprise Price System Criticized, by O. Parpala, 9 pp.
RUMANIAN, np. Viata Economica, 19 Jul 1968, pp 3, 11.
JPRS 46,348

Low-Rent Apartment Construction Program Discussed, by M. Locar, 5 pp.

RUMANIAN, np. <u>Viata Economica</u>, 2 Aug 1968,
p 3.

JPRS 46,354

Electrical Engineering Must Plan For 1970 Demand, by D. F. Lazaroiu, 7 pp. RUMANIAN, np. Viata Economica, Bucharest, No 32, 9 August 1968, pp 5, 10.
JPRS 46570

Reserve Capacity of the Service Industry Identified, by Ch. Sica, C. Alexandrescu, 5 pp.
RUMANIAN, np. Viata Economica, Bucharest, 16 August 1968, p 3.
JPRS 46570

Development of Yugoslav Ironworks is Surveyed, by Mile Markic, 7 pp. SERBO-CROATIAN, per, Celik, No 12, Apr 1968, pp 25-27. JPRS 46,325

Insurance Institute Criticizes, Quits Association, 8 pp.
SERBO-CROATIAN, per, Ekonomska Politika, Belgrade, No 851, 22-28 July 1968, pp 2-3.
JPRS 46445

Changes in Credit Policy of April 1968 Examined, by Milan Golijanin, 18 pp. SERBO-CROATIAN, per, <u>Finansije</u>, Nay-Jun 1968, pp 281-295.
JPRS 46,354

Inequities Noted in System of Assessments and Taxes, by Stjepan kovac, 13 pp. SERBO-CROATIAN, per, Finansije, Nay-June 1968, pp 304-313.
JPRS 46338

CEMA Reconomic, Fiscal Cooperation Reviewed, by Bogdan Ilic, 23 pp. SERBO-CROATLN, per, Finansije, May-June 1968, pp 323-340.
JPRS 46338

How Payments Transactions are Handled Within CEMA, by Danilo Aleksic, 7 pp. SERBO-CROATIAN, per, Finansije, May-June 1968, pp 372-376.
JERS 46338

Business Results Reflect Slow Economic Activity, by Radoslav Vuksanovic, 19 pp. SERBO-CROATIAN, per, <u>Finansije</u>, Belgrade, No 7-8, July-August 1968, pp 437-452.
JPRS 46514

Significance of Nutrition to Economy Surveyed, by Josip Stahan, 8 pp. SERBO-CROATIAN, per, Hrana i ishrana, Belgrade, May-June 1968, pp 408-413. JPRS 46570

New System Urged for Financing health Expansion, by Dusan Andjelkovic, Radmilo Ilic, 18 pp. SERBO-CROATIAN, per, Marodno Zdravlje, Jan 1968, pp 5-11.
JPRS 46363

Eastern Europe Economic (Contd)

CEMA Countries Expand Cooperation, by Radovan Vukadinovic, 21 pp. SERBO-CROATIAN, per, Nase teme, Zagreb, No 6, June 1968, pp 991-1006.
JPRS 46514

Liberalized Consumer Credit Policies Advocated, 10 pp. SER9O-CROATIAN, per, Nova Trgovina, No 5, 1968, pp 221-225.
JPRS 46, 354

Law on Banks and Credit Transactions Presented, 59 pp. SERBO-CRUATIAN, per, Nova Trgovina, No 5, May 1968, pp 261-270.
JPRS 46393

Second Quarter 1968 Shows Promising Economic Trend, by Bozidar Nikolajevic, 8 pp.
SERBO-CROATIAN, per, Nova Trgovina, Belgrade, No 7-8, July-August 1968, pp 350-353.
JPRS 46514

Tourist Industry Expects Modest 1968 Growth, by N. B., 10 pp.
SERBO-CROATIAN, per, Nova Trgovina,
Belgrade, No 7-8, July-August 1968,
pp 353-356.
JPRS 46514

Decision Concerning Imports in 1968 of Commodities Whose Importation Is Conditionally Unrestricted*, 6 pp. SERBO-CROATIAN, per, Nova Trgovina, Belgrade, No 7-8, July-August 1968, pp 389-390.

JPRS 46514

Decision Concerning Establishment and Distribution of the 1968 Global Foreign Exchange Quota to Pay For Imported Raw Materials and Other Producer Goods*, 5 pp. SERBO-CROATIAN, per, Nova Trgovina, Belgrade, No 7-8, July-August 1968, pp 390-391. JPRS 46514

What Kind of a Director is Needed by the Economy Today?, by Veljko Ivosevic, 6 pp. SERBO-CROATIAN, per, Opsting, June 1968, pp 3-8. JPRS 46040

Serbia's Current Economic Problems Cited, by Branislav Ikonic, 6 pp. SERBO-CROATIAN, per, Opstina, Belgrade, July 1968, pp 3-8. JPRS 46439

Alleviation of Unemployment Problems Examined, by Budimir Vakasinovic, 5 pp. SERBO-CROATIAN, per, Opstina, No 7, July 1968, pp 9-14.
JFRS 46393

Maritime Shipping Needs Better Business Climate, by Vicko Krstulovic, 12 pp. SERBO-CROATIAN, per, <u>Pomorstvo</u>, Nos 3-4, Mar-Apr 1968, pp 70-73. JPRS 46338

Yugoslav, Foreign Firms to Cooperate in Ports, by Berigoj Vrsalovic, 11 pp. SERBO-CROATIAN, per. Pomorstvo, Nos 3-4, Mar-Apr 1968, pp 88-90.
JPRS 46338

Separatist Influences Hinder Progress of CEMA, by Radovan Vukadinovic, 26 pp. SERBO-CROATIAN, per, <u>Pregled</u>, Jan-Feb 1968, pp 87-106.
JPRS 46031

Unsynchronized Development of Port Capacities, 8 pp. SERBO-CROATIAN, np, Privredni pregled, Belgrade, 11 July 1968, p 10. JPRS 46570

Foreign Trade Development Since Reform Analyzed, by Dusan Anakioski, 19 pp. SERBO-CROATIAN, per, <u>Problemi Spoline Trgovine i Konjunkture</u>, Oct-Dec 1967, pp 456-474.

JPRS 45, 354

The Tax on Joint Expenditure Funds, 10 pp. SERBO-CROATIAN, np. Savremena Praksa, 22 Apr 1968, pp 1, 12. JPRS 45685

Eastern Europe Economic (Contd)

Housing Conditions Still Lag Behind Europe, by Miroslav Popovic, 9 pp. SERBO-CROATIAN, per, Socijalna Politika, No 6-7, 20 Jul 1968, pp 33-36. JPRS 46,354

Development of Bulgarian Nonferrous Metallurgy, by Dusan Vucurovic, Vucic Djokic, 13 pp. SERBO-CROATIAN, per, <u>Tehnika</u>, Belgrade, July 1968, pp 1156-1159. JPRS 46514

Private Building Replacing Socialized Housing, by Stojka Milojevic, 11 pp. SERBO-CROATIAN, per, Komuna, Jun 1968, pp 24-27. JPRS 46,348

Domestic Transport Reflects 1967 Business Lull, by Mladen Buljevac, 11 pp. SERBO-CROATIAN, per, <u>Transport</u>, Jul 1968, pp 3-7. JFRS 46,325

Problems of Air Transportation Detailed, by Mile Curgus, 5 pp. SERBO-CROATIAN, per, <u>Transport</u>, Jul 1968, pp 20-21. JPRS 46,325

Rapid Concentration of Bank Funds Sought, by Teodor Starcevic, ? pp. SERBO-CROATIAN, per, <u>Vesnik Jugoslavenske</u> <u>Investicione Banke</u>, Apr 1968, pp 1-3. JPRS 46031

Complaints on Clearing Accounts Studied, by Vladimir Iasic, 6 pp. SERBO-CROATIAN, np. Viesnik u Srijedu, 12 June 1968, p 4. JPRS 46031

Savings from Military Newspaper Integration, Fewer Free Copies, by Milan Duvancic, 8 pp. SERBO-CROATIAN, per, Voincekonomski Pregled. May 1968, pp 393-399.

JPRS 45835

Eastern Europe Political

Socialism Built by Army and Party Together, by Hito Cako, 13 pp.
ALBANIAN, per, Rruga e Partise, June 1968, pp 15-23.
JPRS 46185

Party Candidates Need Ideological Education, by Jorgji Sota, 14 pp. ALBANIAN, per, <u>Rruga e Partise</u>, June 1968, pp 39-47. JPRS 46185

Creativity Among the Masses to be Encouraged, by Petro Kito, 12 pp.
ALBANIAN, per, <u>Rruge e Partise</u>, June 1968, pp 48-55.
JPRS 46185

Hoxha Criticizes Remnants of Bourgeois Feeling, 5 pp.
ALBANIAN, np. Zeri i Popullit, 27 Apr 1968, p 2.
JPRS 46038

Party Chief Hoxha Publishes Revolutionary History, by Ndreci Plasari, 7 pp.
ALBANIAN, np, Zeri i Popullit, 4 July 1968, pp 2-3.
JPRS 46341

Western World Conducts Propaganda in Bulgaria, by G. Strugarev, 11 pp. BUIGARIAN, per, <u>Armeyski Pregled</u>, No 6, Jun 1968, pp 122-127. JPRS 46,279

Opponents of Party Leadership in Culture Criticized by Krum Vasilev, 11 pp. BULGARIAN, per, <u>Novo Vreme</u>, No 6, 1968, pp 11-19. JPRS 46038

Spacek Calls for Party Reform, Democratization, by Josef Spacek, 11 pp. CZECH, per, Nova Mysl, No 7, July 1968, pp 807-814.
JPRS 46417

Jiri Seydler of Czech Periodical Reporter
Interviews Soviet Writers Polevoy and Simonov
about Soviet Stand in Regard to Czech Political
Development, 9 pp.
CZECH, per, Reporter, No 19, 8-15 May 1968,
pp 17-19.
JPRS 45689

Eastern Europe Political (Contd)

Czechoslovakia's Osm Path to Socialism, by J. Morrien, 8 pp. DUTCH, per. <u>Politiek en Cultuur</u>, No 5, May 1968, pp 215-223. JPRS 45838

Poland Needs Revolutionary Communist Farty, 12 pp. EMGIISH, Nr., NCNA, 21 Aug 1968. JPRS 46417

Socialist Ideology, Economic Rationality
Discussed, by Rolf Sieber, Guenter Soeder,
14 pp.
GERMAN, per, <u>Deutsche Zeitschrift fuer Philosophie</u>,
No 7, July 1968, pp 787-798.
JPRS 46341

Convergence Theory Labelled Bourgeois Ideology, by E. Bregel, 8 pp. GERMAN, per. Minheit, July 1968, pp 901-906. JRES 46417

Dickel Praises People's Police on Anniversary, by F. Dickel, 8 pp. GERMAN, per, Militaertechnik, July 1968, pp 290-293. JPRS 46445

National Planning Office Reorganizes, by Gyorgy Kalman, 5 pp. HUNGARIAN, np, Figyelo, Budapest, 7 August 1968, p 3. JPRS 46514

Strong Socialist Flant Democracy Discussed, by Marton Suza, 5 pp.
HUNGARIAN, per, <u>lanka</u>, July 1968, pp 6-7.
JPRS 46417

Democracy, Class Struggle Build Socialism, by Gyula Bognar, 6 pp.
HUNGARIAN, per, <u>Fartelet</u>, June 1968, pp 25-29.
JPRS 46,244

Activities of Workers' Guard Detailed, by Imre Visalo, 5 pp.
HUNGARIAN, per, Partolet. No 7, July 1968, pp 6-9.
JPRS 46185

Eastern Europe Political (Contd)

Czechoslovakia Ripe for 'Genuine' Socialist Democracy, 7 pp. ITALIAN, per, <u>Bandiera Rossa</u>, No 10, 15 May 1968, p 3. JPRS 45838

Fourth Union of Socialist Youth Conference, 9 pp.
POLISH, per, Nowe Drogi, No 3, Mar 1968, pp 61-68.
JPRS 45689

Protection Against Unjust Press Criticism Needed, by Bogdan Lichalski, 5 pp. FOLISH, np. Framo i Zycie, 11 Aug 1968, p 3. JPRS 46417

Excepts Given of Strzelecki Speech at Flenum, 5 pp. POLISH, np, <u>Rada Narodowa</u>, 29 June 1968, p 3-4. JPRS 46363

PZPR National Councils Proposals Discussed, 14 pp. POLISH, np. Rada Narodowa, 29 June 1968, pp 8-12. JPRS 46363

Democratic Central Committee Issues Resolution, 11 pp. POLISH, per, <u>Tygodnik Demokrapyczny</u>, 9 June 1968, p 3. JPRS 46.244

Party Support Seen Essential to Worker Autonomy, by Juljusz Waclawek, 5 pp. POLISH, np, Trybuna Ludu, 19 June 1968, pp 3, 4. JPRS 46341

Cadre Policy at Ministerial Institutes Condemned, by Juliusz Waclawek, 5 pp. POLISH, np, Trybuna Ludu, Warsaw, 9 August 1968, p 5. JPRS 46514

Jablonski Preises Polish Internationalism, by Henery Jablonski, 7 pp. POLISH, np, Walka Modych, 7 July 1968, pp 4, 5. JPRS 46445

Polemic Develops Over History Book by Czaplinski, by Andrzej Nowicki, 17 pp.
POLISH, per, Wspolczesnosc, 8-12 May 1968, p 10.
JPRS 46,244

Eastern Europe Political (Contd)

Polemic Arises Over Concept of Nationalism, 25 pp.
POLISH, per, Wspolczesnosc, Warsaw, 15-18 June 1968, p 5; No 14, 3-16 July 1968, pp 4, 5, 6.
JPRS 46445

Series of Articles Discuss Future of France, by Ignacy Krasicki, 7 pp. POLISH, np, Zycie Warszawy, 28 June 1968, pp 3,4. JPRS 46185

Theses Insufficiently Define Administration Role, by Leopold Zabkowicz, 5 pp. POLISH, np, Zycie Warszawy, Warsaw, 9 August 1960, p 3. JPRS 46570

Situation of Modern Socialist Youth Discussed, by Ion Illiescu, C. Ionescu-Gilian, 6 pp. RUMANIAN, per, Amfiteatru, No 31, July 1968, p 518.

JPRS 46341

Two Centuries of Czechoslovak-Rumanian Relations, by Viorica Moisuc, 13 pp.
RUMANIAN, rpt, Analele Institutului de Studii
Istorice si Social-Politice de pe linga CC al
PCR, May 1968, pp 249-250.
JPRS 46038

Foreign Policy Based on Full Equality of Nations, by Aurel Cristescu, 8 pp.
RUMANIAN, per, <u>Lumes</u>, No 26, 20 June 1968, pp 18-20.
JPRS 46038

Eastern, Westurn Europe Rapprochement Seen, by Alexandru Compeanu, 11 pp. RUMANIAN, per. <u>Lupta de Clasa</u>, Bucharest, June 1968, pp 52-62.

JPRS 46445

Rumanian Chauffeurs Abroad Charged with Fraud, by Aurel Codranu, Mihai Cernat, 5 pp.
RUMANIAN, np. Munoa, No 6417, 2 July 1968, pp 1-2.
JPRS 46185

Reactions to Communist Youth Activities Polled, by Paul Diaconescu, Natalia Stancu, 7 pp. RUMANIAM, np. Scintela, 13 Aug 1968, pp 1, 5. JPRS 46417

Eastern Europe Political (Contd)

International Relations of Union of Communist Youth Outlined, by I. Iliescu, 7 pp. RJMANIAN, np, Scinteia Tineretului, 18 Apr 1968, pp 1 & 6.
JPRS 45689

opstina organization in Groatia Discussed, by Arunoslav Simat, 10 pp.
SERBO-CROATIAN, per, opshtina, July 1968, pp 20-28.
JERS 46417

League of Communists Membership Analyzed, 5 pp. SERBO-CROATIAN, np. Vjesnik, 18 Jul 1968, p 7. JPRS 46,244

Military

Military Missiles (Soviet), by 0. Svoboda. CZECH, per, Letectvi-Kosmonautika, No 26, 1967, pp 23-24. *FTD-HT-23-836-68

General Officers Discuss Hilitary Doctrine, 11 pp. CZECH, per, <u>A Revue</u>, No 10, 17 May 1968, pp 12-18. JPRS 46,279

Interview Justifies Size of Military Budget, by Vojtech Srovnal, 9 pp. CZECH, per, <u>A Revue</u>, No 10, 17 May 1968, pp 32-39.
JPRS 46,279

General Pepich Interviewed on Internal Situation, by F. Dobes, A. Zrustek, 9 pp. CZECH, per, <u>A Revue</u>, No 12, June 1968, pp 50-58. JPPS 46,279

Frontier Guards Stand Ready to Defend Nation, by J. Michal, 5 pp. CZECH, per, <u>A Revue</u>, No 12, Jun 1968, pp 60-65. JPRS 46,279

Military wass Communications Media Discussed, 6 pp.
CZECH, per, A. Revue, No 13, June 1968, pp 82-86.
JrNS 46363

Eastern Europe Military (Contd)

Mational Defense inister Interviewed, 10 pp. CZECh, np, A Revue, 12 July 1968, pp 60-67. JPRS 46417

History of Small Arms Export Recounted, by Jiri Elecha, 5 pp. CZECH, per, Zapisnik, No 14, 13 July 1968, pp 13-15. JPRS 46341

Premier Issues Decree on Military Decorations, 12 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, 31 July 1968, pp 645-649.
JPNS 46363

Why Not Lighter and Cheaper Battle Tanks?, by Hans-Joachim Jung. GERMAN, per, Kampftruppen, No 6, 1967, p 174. ACSI J-4881 FSTC HT-23-150-68

High Speed Diesel Engines for Land and Marine Use, by U. Beyer.

(ERMAN, per, Militartechnik, No 1, pp 37-38.

ACSI J-4880

FSTC HT-23-151-68

The Significance of Armored Recovery Vehicles Within the System of Armored Combat Readiness, by R. Zimerrann.

(ERMAN, per, Militartechnik, No 10, 1967, pp hh6-hh8.

ACSI J-h882
FSTC HT-23-lh8-68

Armored Personnel Carriers of the Csechoslovak Peoples' Army, by R. Munsar. CERMAN, per, Militartechnik, No 11, 1967, pp 518-519.

ACSI J-4961.
FSTC HT-23-183-68

GDR Supports 18-Mation Disarmament Committee, 5 pp.
GERMAN, np. News Deutschland, 21 Aug 1968, p 5.
JPRS 46417

The Army Technical Specialist School, by Priedrich Schoog. GERMAN, per, Truspendienst, No 3, 1966, pp 228-230.
AGSI J-1678
FSTC HT-23-165-68

Eastern Europe Military (Contd)

The Joint German-American Development Heavy Tank 70.

CERMAN, per, Wehr Und Wirtschaft, Vol 11, No 11, pp 574-575.

ACSI J-4883

FSTC HT-23-149-68

Preventive Measures in Civil Defense Discussed, by Laszlo Bartha, 6 pp. HUNGARIAN, np, Polpari Vedelem. 27 July 1968, pp 6-7. JPRS 46341

Relocation Planned in the Event of Enemy Attack, 5 pp.
HUNGARIAN, per, <u>Polgari Vedelem</u>, Budapest, No 15, 10 Aug 1968, pp 12-13.
JPRS 46445

Sociological

Foreign Literature Criteria Established, by Ismail Kadare, 6 pp.
ALBANIAN, np. Drite, 19 May 1968, p 2.
JPRS 46185

Official Discusses Biucational Improvements, by Hasan Duma, 5 pp.
ALBANIAN, np, Zeri i Popullit, 25 May 1968, p 3.
JPRS 46038

New Regulation on Appointment of Teachers, 24 pp. BULGARIAN, per, <u>Durshaven Vestnik</u>, No 48, 21 June 1968, pp 2-7.
JPR: 46038

Bulgaria Initiates Desographic Studies, by Khr. Petkov. 10 pp.
BULGARIAN, per. <u>Abdriena i Zdraveopasvane</u>, No 2, Mar/Apr 1968, pp 85-94.
JPRS 46038

Problems Caused by Rigration from Rural Areas, by Vasil Todorov, 12 pp. BUIGARIAN, per, Novo Vreme, No 6, 1968, pp 37-47. JPRS 46038

Eastern Europe Sociological (Contd)

Regulations Given for Licensing Trademarks, by Vladimir Vrana, 5 pp. BULGARIAN, per, Rationalizatsiya i standartizatsiya, Sofia, No 6, 1968, pp 27-29.
JPRS 46570

New Law on Judicial Rehibilitation Presented, 20 pp. CZECH, np. Sbirka Zakonu CSSR, Part 26, 28 June 1968, pp 230-236.
JPRS 46341

World Law Cited to Bolster GDR Access Position, by Peter Alfons Steiniger, 5 pp. GERWAN, per, <u>Aussenpolitische Korrespondenz</u>, 1 Jul 1968, pp 219-220. JPRS 46,279

Decree Details Delivery Terms for Defense Needs, 38 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, No 63, Part 2, 28 June 1968, pp 407-422.
JPIS 46185

Living Conditions Improve for Gypsy Population, by Sandor Mihok, 6 pp.
HUNGARIAN, per, <u>Partelot</u>, June 1968, pp 71-74.
JPRS 46,244

Technocracy As Viewed by a "Technocrat", by Tibor Vamos, 23 pp.
HUNGARIAN, por, <u>Tarsadalmi Szemle</u>, No 6, June 1968, pp 32-43.
JPRS 46,244

Problems of University Life Discussed, by Bela Kopecsi, 11 pp. HUNGARIAN, per, <u>Tarsadalmi Saemle</u>, No 7, Jul 1968, pp 12-19. JPRS 46185

Herits of 'World Outlook' Course Debated, by Eva Katuma, 9 pp. HUNGARIAN, PER, <u>Tareadalud Sacale</u>, No 7, July 1968, pp 62-67. JPNS 46185

Workers Autonomy Advantages, Disadvantages Listed, by Henryk Hagdmiak, 16 pp. POLISH, per, <u>Howe Droni</u>, Warsaw, July 1966, pp 3-15. JPRS 46439 Eastern Europe Sociological (Contd)

Aspects of Admission to Higher Studies Examined, by Roman Mistewicz, 15 pp.
POLISH, per, Nowe Drogi, Jul 1968, pp 32-44.
JPRS 46,244

Pajestka Defends Views on Cultural Model, by Jozef Pajestka, 12 pp. POLISH, np, Polityka, 6 June 1968, p 3, 11. JPRS 46341

People's Councils Considered Unsatisfactory, by Tadeusz Kolodziejczyk, 8 pp. POLISH, np, Polityka, No 26, 29 June 1968, p 4. JPRS 46341

Teacher's Froblems in Civic Education Discussed, by Daniel Fikus, 11 pp.
POLISH, np, Polityka, No 26, 29 June 1968, p 5.
JPRS 46341

Scandalous Behavior of Craftsmen Attacked, by Jerry Raminger, 5 pp. POLISH, np. <u>Prawo El Zycie</u>, 14 July 1968, p 5. JPRS 46341

State of Polish Philosophy Discussed, by Tadeusz M. Jaroszewski, 20 pp. POLISH, np. <u>Trybuna Ludu</u>, 2 June 1968, pp 3-5; 4 June 1968, pp 3-4. JPRS 45835

Continuation of Discussion on Polish Philosophy, 5 pp. POLISH, np., Trybuna Ludu, 6 June 1968, p 3. JPRS 45835

'Structural Changes' are Class Transformations, by Wlodzimierz Wesolowski, 6 pp. FOLISH, np, Trybuna Ludu, 18 June 1968, pp 3, 4. JPRS 46031

State Publishing House Corrects Histakes, 5 pp. POLISH, np. Zycie Warszawy, 7 June 1968, pp 3, 4. JPRS 46038

Problems of Filmmaking and Distribution Discussed, 21 pp. RUMANIAN, np. Contemporanul, 28 Jun 1968, pp 8-9. JPPS 46,244

Eastern'Europe Sociological (Contd)

Professor Studies Ubanization in Rumania, by Miron Constantinescu, 11 pp.
RUMANIAN, per, Contemporanul, No 32, 9 Aug 1968, p 4.
JPRS 46363

Survey Attempts Causal Study of Birth Rate, 5 pp.
RUMANIAN, per, <u>Igiona</u>, No 6, June 1968, pp 336-340.
JPRS 46,244

Sport Clubs Charged with Financial Irregularities, by Gh. Cioranu, 5 pp.
RUMANIAN, np, Munca, 26 July 1968, pp 1, 3.
JPRS 46363

Population Breakdown by Counties Discussed, by M. Bulgaru, 5 pp.
RUMANTAN, per, Natura-Geografie/Geologie. No 3, 1968, pp 10-14.
JPRS 46,244

Education Receives New Developmental Program, by Ion Teoreanu, 15 pp. RUMANIAN, per, <u>Lupta de Clasa</u>, Bucharest, June 1968, pp 3-15. JPRS 46445

Excess General Education Expenditures Must Be Curtailed, by Victor Grigorescu, 9 pp. NUMANIAN, per, Revista de Pedagogie, No 14, Apr 1968, pp 92-97.

JPRS 45689

Statistics on Educational System Presented, by I. Ferenbac, M. Firicica, 15 pp. RUMANIAN, per, Revista de Statistica. Apr 1968, pp 3-12.

JPRS 46038

Postgraduate Courses Heeded for Rapid Scientific Development, 5 pp.
RUMANIAN, np. Scinteia, 2 June 1968, p 4.
JPRS 45835

Crime Laws Noted as Wear Deterrence to Embesslement, by George-Radu Chirovici, 7 pp. RUMANIAN, np. Sointeia, No 7751, 2 July 1968, pp 1-2.
JPRS 46185

Eastern Europe Sociological (Contd)

WESTERN EUROPE

Economic

Lack of .rofessional Ethics at Clinic Discussed, by r. Diaconescu, 8 pp. RULANTAN, np., Scinteia, 24 July 1968, p 5. Jrns 46417

Philosophy Guided by the Party Spirit, by Calina Mere, 6 pp.
RUMANIAN, np. <u>Tribuna</u>, No 23, 6 June 1968, pp 1-2.
Jprs 46038

Non-Attendance Education Has Difficulties, by M. Popa, 5 pp.
RULANIAN, np. Viata Studenteasca, 24 July 1968, p 5.
JPRS 46363

Employment of Faculty-Trained Specialists, by Miroslav Zivkovic, 15 pp. SEMBO-CROATIAN, per, Gledista, May 1968, pp 839-850.
JPRS 45835

Internal Migrations of the Population of Yugo-slavia, by Dusan Breznik, 18 pp.
SERBO-CROATIAN, per, <u>Jugoslovenski Fregled</u>, No 1,
Jan 1968, pp 1-6.
JPRS 45835

Welfare Institutions Need Improvement, Aid, by Dusan Lakicevic, 8 pp. SERBO-GROATIAN, per, Socijalna Politika, No 6-7, 20 July 1968, pp 17-20. JPRS 46341

Kosmet Vitally Needs Basic Health Protection, by Bozidar Colakovic, 9 pp. SERBU-CRUATIAN, per. Socijalna Politika, No 6-7, 20 July 1968, pp 36-40.
JPRS 46341

Serbian Welfare Institute Works on Contract, by Miroslava Veljic, 6 pp. SERBO-CROATIAN, per, Socijalna Politika, No 6-7, 20 July 1968, pp 49-50.
JPRE 46341

Need for Oil Self-Sufficiency Stressed, by Alberto Pozo, 7 pp. SPANISH, per, Bohemia, 3 May 1968, pp 20-24, 28-31, 90. JPRS 45719

Political

Knud Jespersen Comments on Czech Invasion, by Knud Jespersen, 7 pp. DANISH, np. Land og Folk, 25-26 Aug 1968, p 5. JPRS 46387

Debate on Alienation and Economism, 12 pp. DUTCH, np. Rode Tribune, Jan-Feb 1968, pp 9, 10; Feb-Mar 1968, pp 2, 12; Mar-Apr 1968, pp 11, 12. JPRS 46197

Finnish CP Leader Views Responsibilities of Party, by Ville Pessi, 5 pp. FINNISH, np. Kansan Untiset, 21 June 1968, p 4. JPRS 46197

French CP Journal Calls For a United Opposition, 12 pp. FRENCH, per, <u>Cahiers du Communisme</u>, Paris, June-July 1968, pp 4-13, JPRS 46515

French CP Stands During Crisis Reviewed, 58 pp.
FRENCH, per, <u>Cahiers du Communisme</u>,
Paris, June-July 1968, pp 14-53.
JPRS 46515

Leftism Attacked by French CP Writer, by Leo Figueres, 19 pp.
FRENCH, per, Cahiers du Communisme,
Paris, June-July 1968, pp 68-83.
JPRS 46515

Western Europe Political (Contd)

Acting CP Chairman Expains Party Attitude, by Marc Drumaux, 6 pp. FRENCH, np, Le Drapeau Rouge, Brussels, 30 August 1968, p 5. JPRS 46515

French CP Writers Vow Fight Against Leftism, by Francois Billoux, Paul Laurent, 10 pp. FRENCH, np. France Rouville, 31 July 1968, p 3, 7-8.
JPRS 46387

French CP Writer Says Communism Will Andure, by Francois Milleux, 5 pp. FRENCH, np. France Nouvelle, 7 Aug 1968, p 3. JPRS 46387

French CP View of Sofia Youth Festival, by Francois Hilsum, 5 pp.
FRENCH, np, L'Humanite, Paris,
16 August 1968, pp 1, 4.
JPRS 46515

Policy Statement Issued by Unir-Debat, by Rene Garraud, 5 pp.
FRENCH, np. Unir-Debat, 10 July - 10 Aug 1968, pp 2, 3.
JPRS 46387

French CF Seeks Stronger Leadership, by m. Millot, 6 pp.
FRENCH, np. Unir Debat, 10 July-10 Aug 1968, pp 4-5.
JPRS 46387

French Left Needs Revitalization, by J. Courtois, 6 pp.
FRENCH, np. Unir-Debat, 10 July-10 Aug 1968, pp 6, 7.
JPRS 46387

Swiss Communist State Position on Czech Crisis, 5 pp. FRENCH, per, <u>Voix Ouvriere</u>, Geneva, 22, 23, 24, 26 August 1968, p 1. JPRS 46515

Labor Party (Communist) Prepares For Ninth Congress, 11 pp. FRENCH, per, <u>Voix Ouvriere</u>, Geneva, 27 August, 4 September 1968, p 3. JPRS 46515 Western Europe Political (Contd)

Swiss CP Reaffirms Their Position on Czech Crisis, by Franz Dubi, 6 pp. FRENCH, np, <u>Voix Ouvriere</u>, Geneva, 11 September 1968, p 1. JPRS 46575

Belgian CP Comments on Student Disorders, 56 pp. FRENCH, per, La Voix du Peuple, Brussels JPRS 46575

Belgian CP Denounces Insidious Neo-Revisionism, 14 pp.
FRENCH, per, <u>la Voix du Peuple</u>, No 23, 7 June 1968, pp 5, 8.
JPRS 45838

Marxist-Leninists Criticize West German CP, 14 pp. GERMAN, per, Roter Morgen, Hamburg, August 1968, pp 1-12. JPRS 46515

Marxist-Leninist Theories Create Class Revolution, 9 pp.
ITALIAN, per, <u>Lavoro Politico</u>, May 1968, pp 1-5.
JPRS 46387

Italian CP Heads Marxist-Leninist Struggle, 21 pp. ITALIAN, per, Lavoro Politico, May 1968, pp 6-12. JPRS 46387

Marxists-Leninists: What Unity?, 11 pp. ITALIAN, per, Lavoro Politico, No 5-6, Mar-Apr, 1968, pp. 41-43
JPRS 45838

Italian CP Leader Analyzes French Situation in Interview, by Luigi Longo, 16 pp.
ITALIAN, np. Rinascita, No 24, 14 June 1968, pp 3-6.
JPRS 45838

Ingrao Warms of Langers in Csech Democratisation, by Pietro Ingrao, 7 pp.
ITALIAN, np. Rinascita, 2 Aug 1968, pp 1-2.
JPRS 46387

Western Europe Political (Contd)

Reasons For PCI Support of Czech Communists, 11 pp.
ITALIAN, np, Rinascita, Rome,
30 August 1968, pp 1-5.
JPRS 46515

Writer Urges Liberalization in Communist Ties, by Achille Occhetto, 9 pp.
ITALIAN, np, Rinascita, Rome, 6 September 1968, pp 3, 4.
JPRS 46575

Luigi Longo Comments on Czech Situation, 6 pp.
ITALIAN, np. Rinascita, Rome,
13 September 1968, pp 3, 4.
JPRS 46575

Developments In, Lessons Learned From Czech Crisis, 12 pp. ITALIAN, np, L'Unita, Rome, 8 September 1968, p 14. JPRS 46515

Past, Present Farxist Philosophy Outlined, by Kare Selnes, 48 pp. NOWWEGIAN, per, Friheten, Various Issues, Nov 1967. JPRS 46387

The Current Situation in Spain and the Communists, by Santiago Carrillo, 7 pp.
SPANISH, np. Espana Republicana, 1 July 1968, pp 3, 12.
JPRS 46387

Spanish Communist Party Urges Leftist Unity,9 pp. SPANIJH, np. pspana Republicana, 15 July 1968, pp 3, 4.
JPRS 46387

Western Europe Geographic

The Plain of Reeds - Table of Contents and Bibliography by Victor Delahaye. FRENCH, bk, La Plaine des Jonos, 1928, pp 243-248.

ACSI J-5217

AMS-13-68

AFRICA

Economic

Financing the First Economic and Social Development Plan, 6 pp.
FRENCH, per, L'Afrique, Mar-Apr 1968, pp 28-29.
JPRS 45720

Forest Economy in the Kinguele Region, 5 pp. FRENCH, per, L'Afrique Actuelle, Mar-Apr 1968, pp 16-18.
JPRS 45720

Implementation of the Five-Year Plan, 1966-1970, 10 pp. FRENCH, per, <u>L'Afrique Actuelle</u>, Mar-Apr 1968, pp 25-27. JPRS 45720

Industrial Projects Reviewed, 11 pp. FRENCH, per, Afrique Service, 15 Feb 1968, pp A-I.
JPRS 45720

Statistics on Production in 1967, 5 pp. FRENCH, per, <u>Bulletin de l'Afrique Noire</u>, 24 Apr 1968, pp 10191-10193.

JPRS 45720

Chadian Trade Statistics for 1967 Given, 5 pp.
FRENCH, per, <u>Pulletin de l'Afrique Noire</u>, 17 Jul 1968, pp 10389-10391.
JPRS 46,357

Sconomy Shows Slow But Steady Improvement, 6 pp. FRENCH, per, Le Commerce du Levent, July 1968, pp 74-75.
JPRS 46392

Africa Economic (Contd)

Problems of Congolese Businessmen, by Louis-Paul Ryenga, 5 pp.
FRENCH, np,
JPRS 45720

L'Etoile, 13-15 Apr 1968, pp 7, 12.

Survey of Economic Development in Senegal, 38 pp. FRENCH, per, Europe France Outremer, No 458, Mar 1968.

JPRS 45687

Characteristics of Second Plan, 1969-1972, by Moktar Ould Haiba, 6 pp. FRENCH, per, Europe France Outre-Mer, Apr-May 1968, pp 30-32.

JPRS 46,320

Lag in Progress of Rural Sector Noted, by Moktar Ould Haiba, 5 pp.
FRENCH, per, Europe France Outre-Mer, Apr-May 1968, pp 43-46.
JPRS 46,320

Economic Recovery and Prospects, 5 pp. FRENCH, np. Informations d'Outre-Mer, 17 Apr 1968, pp 5-6 and 24 Apr 1968, pp 5-7. JPRS 45720

Setting Up of UEAC Not Expected to Curtail Industrialization, 5 pp. FRENCH, np, Le Moniteur Africain, 18 Apr 1968, p 6.
JPRS 45720

Massive 1968 Investment Aid Reviewed, 6 pp. FRENCH, np, Le Moniteur Africain, 2 May 1968, pp 6, 12.

JPRS 45720

Swiss Trade Relations with French-Speaking Africa, 7 pp.
FRENCH, np, Le Moniteur Africain, 2 May 1968, pp 7-8.
JPRS 45720

Economy Develops Slowly Despite Foreign Aid, 7 pp. FRENCH, np. Le Moniteur Africain, 1 Aug 1968, p 4. JPRS 46278 Africa Economic (Contd)

Hasic Economic Reform Doctrines Set Forth, 7 pp. FRENCH, np. La Republique, 1 Aug 1968, p 3. JPRS 46392

First Half 1968 Industrial Production Survey, 6 pp.
FRENCH, np. <u>Ia Vie Economique</u>, 28 June 1968, pp 1, 3.
JPRS 46278

Political

Student Congress Ends, Supports Government, 7 pp. FRENCH, np. L'Action, Tunis, 18 Aug 1968, p 2. JPR3 46526

President Bourguiba's Pragmatism in Tunisia, by Jean-Philippe Caudron, 8 pp. FRENCH, per, Croissance des Jeunes Nations, May 1968, pp 5-8.
JPRS 46278

Nationalizations Strength State Capitalism, by G. Viratelle, 6 pp. FRENCH, per, Croissance des Jeunes Nationa, July-Aug 1968, pp 31-32.

JPRS 46278

President Senghor Addresses UPS National Council. 10 pp. FRENCH, np. <u>Dakar-Natin</u>, 22 July 1968, p 3. JPRS 46278

Morocco -- The Left and the Middle East Conflict, by Abderrashman Bouabid, 9 pp. FRENCH, per, Democratic Nouvelle, Mar 1968, pp 57-61.
JPRS 45720

The Union of Central African States Assessed, by Theophile Lukusa, 60 pp. FRENCH, per, Etudes Congolaises, Apr-June 1968, pp 68-119.
JPRS 46278

Africa Political (Contd)

Information on Mauritanian People's Party, by Robert Taton, 5 pp. FRENCH, per, <u>Europe France Cutre-Mer</u>, Apr-May 1968, pp 19-21.

JPRS 46,320

President Discusses Role of Lotion Pictures, by Fresident Toure, 20 pp. FRENCH, per, Horova, 16-17 June 1968, pp 1-4. JPRS 46278

Mauritania -- Nation in Formation -- Is Surveyed, by Monique Sordet, Earnest Milcent, 9 pp. FRENCH, per, <u>Jeune Afrique</u>, No 386-387, 27 May-9 Jun 1968, pp 27-31. JPRS 46,357

Government, Labor, Lanagement Reach Agreement, 5 pp.
FRENCH, np, Le Moniteur Africain, 20 June 1968, p 3.
JPRS 46392

Inaugural Speech Given at Congress of African Momen, 5 pp.
FRENCH, np. <u>kl. Noudjahid</u>, 29 July 1968, p 3.
JFRS 46392

Ben Salah Addresses Students at Monastir, 6 pp. FRENCH, np. <u>La Presse de Tunisie</u>, Tunis, 12-13 Aug 1968, p 4.

JPRS 46526

Similarities and Differences in African Politics, by Tatiana Yannopoulos, 15 pp. FRENCH, per, Revue Française d'Etudes Politiques Africaines, Apr 1968, pp 32-47.

JPRS 45720

Historical Survey of Political Parties, 15 pp. FRENCH, per, Revue Française d'Etudes Politiques Africaines, Apr 1968, pp 78, 82-94.

JPRS 45720

Mayor as Judiciary Police Officer is Analyzed, by Gilbort Mangin, 11 pp. FRENCH, per, Revue Juridique et Politique, Apr-Jun 1968, pp 527-536. JPRS 46,357

Africa Political (Contd)

"Scientific Socialism" in the Congo-Brazzaville, by Albert Godefroid, 9 pp. FRENCH, per, La Tribune Africaine, 27 Jan 1968, p 7; 28-29 Jan 1968, p 2; 1 Feb 1968, pp 4,6. JPRS 45720

Full Text of Equatorial Guines's Constitution, 16 pp.
SPANISH, np. ABC, 28 July 1968, pp 31-34.
JPRS 46278

Sociological

Bourguiba Explains His Philosophy of Development, by Habib Bourguiba, 9 pp. FRENCH, np. L'Action, 13 July 1968, p 5. JPRS 46392

Fopulation Census, Urbanization of Ladagascar, by J. Poitier, 28 pp. FRENCH, per, Civilisations, Vol 18, No 1, 1968, pp 80-109.

JPRS 46278

Tribal Dispute in Kasai-Oriental Reported, 9 pp.
FRENCH, np. Le courrier d'Afrique, 27 Jun 1968, pp 1, 5: 31 Jul 1968, pp 1, 5: 5 Aug 1968, pp 1, 3, h.
JPRS 46,357

Education Minister Speaks on University Reform, by Assane Seck, 9 pp.
FRENCH, np. Dakar-Matin, 22 July 1968, pp 3, 6.
JPRS 46278

Play by Bamako Youth Explores Nation's Problems, 5 pp.
FRENCH, np. L'Essor Hebdomadaire, 8 July 1968, p 6.
JPRS 46392

Report on Priority of Cadro-Training, by Abdoulaye Baro, 5 pp. FRENCH, per, <u>Europe France Outre-Mer</u>, Apr-May 1968, pp 25-27.
JPRS 46,320

Africa Sociological (Contd)

rarriage Justoms, laws in Africa Reviewed, by J. milaire, 57 pp. r.middin, per, <u>remant</u>, Vol 78, no 720, Apr-June 1968, pp 147-193. J. no 46392

Astivities of Foreigners in Monakchott Reported, by M. Y. B., 7 pp.
FRANCH, np. Le Peuple, 13 Jun 1968, p 3.
JPRS 46,357

rresident explains Social welfare Policy, by El hadj Ahmadou Ahidjo, 11 pp.
FRONCH, np. la Presse du Cameroun, 13 Aug 1968, p 4.
JPRS 46392

History of Municipality in .ali Reviewed, by Kemara Alamako, 5 pp.
FRANCH, par, Revue Juridique et Folitique, Apr-Jun 1968, pp. 391-396.
JPRS 46,35?

Development of Commune Organization Discussed, by monamed all Bechir Pal, 9 pp. FRENCE, per, Nevue Juridique et Politique, Apr-June 1963, pp 407-414. Jr. 346392

Cities, Communes Organizational Reform Discussed, by Felix Vundowe, 6 pp. FRANCH, per, Revue Juridique et Politique, Apr-June 1968, pp 425-430.
J. 46392

Role of Commine as Factor in Development Studied, by Lichel Alliot, 9 pp. FRENCH, per, Revue Juridique at Politique, Apr-Jun 1969, pp 537-544. JPRS 46,357

The Batwa People of Rwanda and Burundi, by Father Antonio de Carolia, 6 pp. ITALIAN, per, <u>Migrizia</u>, May 1968, pp 4-7. JPRS 45720

MIDDLE EAST

Economic

Development of Petroleum Industry Reviewed, 16 pp. FRENCH, per, Le Commerce du Levant, Beirut, July 1968, pp 35-39. JPRS 46432

Cotton, Import-Export, Oil Transit Figures Given, 5 pp. FRENCH, per, Le Commerce du Levant, Beirut, July 1968, pp 76-77.
JPRS 46432

Resources of Lebanese Banks Have Increased, 5 pp. FRENCH, np. Library, 1 Aug 1968, p 10. JFRS 46,360

Industrial Cargoes Seen Future of Lebanese Shipping, 10 pp. FRENCH, np, L'Orient, Beirut, 14 August 1968, pp 1, 14. JPRS 46441

Political

Police Transfers and Appointments Effected, 8 pp.
ARABIC, np, Al-Jumhuriyyah, Cairo, 31 July 1968, p 5.
JPRS 46432

MARAL Journalist Gives Views on Czech Situation, by Maten Yanei, 7 pp. HEBREW, np. <u>Bamaheneh</u>, 23 July 1968, pp 8-9. JRE 46301

Israel Sees Cocupied Land Source of Hope, by Shlomo Gazit, 10 pp. HEBREW, np, Bamahaneh, Tel Aviv, 20 August 1966, pp 4-5, 26. JPRS 均均址1

Middle East Political (Contd)

Moshe Sneh Speaks on Middle East Crisis, by Moshe Sneh, 14 pp.
HEDREW, np. Kol Ha'am, 5 Jul 1968, pp 2, 5.
JPRS 46,360

Differences Between Rakah, Maki Described, by Uzi Burstein, 8 pp. HEBREW, np. Zo Haderekh, Tel Aviv, 24 July 1968, p 5, and 31 July 1968, p 4. JPRS 46432

Letters Exchanged Between Hungarian, Israeli CP, 10 pp. YIDDISH, np. Frei Yisroel, Tel Aviv, 25 July 1968, pp 2, 3 and 1 August 1968, pp 2, 3. JPRS 46432

Military

War Ministry Issues Decree on Draft Exemptions, 6 pp.

ARASIC, np. Al-Waqa'i' al-Misriyyah, 2 Jul 1968, pp 2-4.

JPRS 46,360

Interview With Airborn Commander Col Rafael Eytan, by Benjamin Landau, 5 pp. HEBREW, np. Bamhaneh, Tel Aviv, 6 August 1968, pp 6, 7. JPRS 46441

Armed Forces Exhibit Opens in Tel Aviv, by Yoav Tokar, 7 pp. HEBREW, np, Bamahaneh, Tel Aviv, 6 August 1968, pp 24-27. JPRS 46441

Middle East Sociological

Land Reclamation in the United Arab Republic, 6 pp.

ARABIC, np, Al-Ahram (Supplement), 10 July 1968, pp 1, 4.

JPRS 46301

Two Hundred New Villages Constructed, 6 pp. ARABIC, np. al-Ahram (Supplement), 10 July 1968, p 4.
JIRS 46301

Amendment of the National Security Tax, 5 pp. ARABIC, np, al-Ahram, 30 July 1968, p 4. JPRS 46301

Changes Made in University Entrance Examinations, 5 pp. GREER, np. Elevtheros Aosmos, 1 June 1968, pp 1, 9. JRRS 46301

Letters Support Greater Land of Israel Movement, 5 pp. HEBREW, np, Zot Haaretz, Tel Aviv, 2 August 1968, p 6. JPRS 46441

Health Corps Numbers Help Rural Villagers, by Hehdi Faqihi, 8 pp. PERSIAN, np. <u>Khandaniha</u>, 6 Apr 1968, p 21. JPRS 46,360

Life in the Village of Ali abad Reviewed, 8 pp.
PERSIAN, np, Khandaniha, 9 Apr 1968.
JPRS 46, 360

Biographic

Hiographic Information, 6 pp. PERSIAN, np. Various Newspapers, 1968. JPRS 46201 FAR EAST

Economic

Cement Industry in Communist China Described, by Lu Yun, 9 pp.
CHINESE, per, Fei-ching Yen-chiu, Vol 2, No 6, 30 June 1968, pp 87-90.
JPRS 46277

Hydraulic Resources in Vietman, by
Hguyen-Khac Kham, 9 pp.
FRENCH, rpt, Document de la Conferences des
Mations Unies Sur L'Application de la Science
Et De La Technique Dan L'Interest Des Regions
Peu Developpees, 1962.
AIS

In North Korea, by Sakurai Hiroshi.

JAPANESE, per, <u>Azai Keizai</u>, Vol 11, Nov 1964, pp 51-59.

ACSI J-5301

ID 2204016268

South and North Korean Economy Under Stresses, by Miyashita Masahiro.

JAPANNSE, per, <u>Ekonomisuto</u>, 13 Feb 1968, pp 38-41.

ACST J-5288

ID 2204017168

Newly-Independent Countries Need Strong Economies, by Kim Ung. 13 pp.
KOREAN, Per, Kulloja, 30 May 1968, pp 58-64.
JPRS 46079

Let Us Surge Upward in Socialist Construction, 16 pp. KOREAN, per, Kulloja, 30 May 1968, pp 2-9. JPRS 46079

More Reform is Needed in the Livestock Industry, by Chang Kuk-ch'an, 11 pp.
KOREAN, per, Kulloja, No 6, June 1968, pp 39-44.
JPRS 46377

Coal Industry of Today Contrasted With Yesterday, by Kim Tong-su, 5 pp. KOREAN, np. Minju Choson, Pyongyang, 4 July 1968, p 2.
JPRS 46507

Far East Economic (Contd)

Development of Mining Industry Reviewed, by Cho On-hwan, 7 pp. KOREAN, np, Minju Choson, Pyongyang, 4 July 1968, p 2. JPRS 46507

Mass Movement For Scrap Iron Collection, by Kim Yon-tok, 5 pp.

KOREAN, np. Nodong Chongnyon,
Pyongyang, 5 July 1968, p 2.

JPRS 46507

Development of Chemical Industry Urged, 6 pp. KOREAN, np., Nodong Sinmum, Pyongyang, 9 July 1968, p 2. JPRS 46507

Agricultural Cooperative Members Receive Pensions, by C. Amarhuu, 5 pp.
MCNGOLIAN, per, <u>Ardyn Tor</u>, No 1, 1968, pp 7-10.
JPRS 46045

1968 State Plan, Results of 1966 Budget Discussed, by D. Sodnom, 16 pp.
MONGOLIAN, np. <u>Unen</u>, 22 Jun 1968, p 3.
JPRS 46,249

1968 Plan for Development of Economy, Culture, Budget, by 0. Tsend, 7 pp.
MONGOLIAN, np. <u>Unen</u>, 23 June 1968, p 2.
JPRS 46,249

Fulfillment of First Half of 1968 Plan Reported, 7 pp.
MOJGOLJAN, np, <u>Unen</u>, 28 Jul 1968, p 1.
JPRS 46,249

Role of Technical Training Schools Expanded, by G. Damdindorj, 7 pp. MONGOLLAN, per, <u>Surgan Humunjunlegoh</u>, No 2, 1967, pp 69-72.

JPRS 45836

Local Industrial Development Problems Reviewed, by Ngo Thuc, 12 pp. VIETNAMESE, per, Hoc Tap, No 7, July 1968, pp 53-60. JPRS 46516 Far East Economic (Contd)

Nam Ha Trade Unions Aid Goods Distribution Task, by Xuan Rai, 6 pp. VIETNAMESE, np. Lao-dong, 8 May 1968, p 3. JPRS 46077

Coordination of Two Basic Economies Urged, 6 pp. VIETHAMESE, np. Nhan-dan, 16 Jul 1968, pp 1-2. JPRS 46,280

Past Triumphs Bolster State Plan for 1968, by Nguyen Van Dao, 9 pp. VIETNAMESE, per, Thoi-su Pho-thong, January 1968, pp 16-24.
JPRS 45,954

Political

Study of May 1966 Chinese Circular Recommended. 7 pp.
DANISH, per, Kommunistisk Orientering, No 11,
22 May 1968, pp 1-3.
JPRS 45838

Cambodian Police Deport Vietnamese, Chinese, 5 pp.
FRENCH, per, Jornal Officiel du
Cambodge, Phnom Penh, 3 April 1968, p 1, 376-1, 378.
JPRS 46585

North Korean Political and Economic Conditions. JAPANESE, per, Chosa Geppo, Jul 1965, pp 11-27. ACCI J-5284 ID 2204016768

Korea's North-South Unification Tssue, JAPANESE, per, <u>Chosa Geppo</u>, No 115, Jul 1965, pr 28-41. ACSI J-5285 ID 2204016868

Reflections and Prospect on the Internal and External Situations.

JAPANESE, per, Koan Chosacho, Maigai Josei
Mo Kaiko To Tembo, Jan 1967, pp 79-95.

ACSI J-5304
ID 2204715568

Far East Political (Contd)

Genesis of North Korea's Independent Foreign Policy Line, by Choga Kazuya.

JAFANESE, bk, <u>Kokusai Nordai</u>, pp 48-53.

ACSI J-5286
ID 2204016968

Rolations Between North Korea, The Soviet Union and China.

JAPAMESE, per, Shoten No., No 165, Jun 1966, pp 4-10.

ACSI J-5287
ID 2204017068

Translations on North Korea, 117 pp. KOREAN, per, Kulloja, No 4, 1968, pp 2-12, 13-20, 21-28, 29-35, 36-46, 47-53, 54-59, 60-64.

JPRS 45872

Selected Works of Kim II-Song Published, 38 pp. KOREAN, per, Kulloja, 30 May 1968, pp 10-30. JPRS 46079

Anti-Japanese National United Front Described, 14 pp.
KUREAN, per, Kulloja, 30 May 1968, pp 31-37.
JPRS 46079

Master True Meaning of 'Education is Revolution', by Yi Chang-su, 11 pp.
KOREAN per, Kulloja, 30 May 1968, pp 38-43.
JPRS 46079

Merits of Sub-Team Control System Discussed, by Chon Ch'u-ho, 14 pp.

KOREAN, per. <u>Kulloja</u>, 30 May 1968, pp 44-50.

JPRS 46079

Policy for South Korean Revolution Proposed, by Pack Ail-man, 14 pp.
KORKAN, per, Kulloin, 30 May 1968, pp 51-57.
JPRS 46079

Viability of Self-Identity, 20 pp. KORBAN, per, Kulloja, No 6, June 1968, pp 2-11. JPRS 46377

Revolutionary Pride under Kim Il-song's Leadership, 11 pp. KOREAN, per, <u>Kulloja</u>, No 6, June 1968, pp 12-17. JPRS 46377

Socialist Patriotism Traditions, 11 pp. KOREAN, per, <u>Kulloja</u>, No 6, June 1968, pp 18-23.
JPRS 46377

The Party Spirit, the Working Class Spirit, and the Popular Spirit, by Kim Ch'ang-hyong, 14 pp.

KOREAN, per, Kulloja, No 6, June 1968, pp 24-30.
JPRS 46377

The Flying Horse Work Team Movement Still Needed, by Chon Ch'ang-yol, 17 pp. KOREAN, per, Kulloja, No 6, June 1968, pp 31-38.

JPRS 46377

Imperialism Is a Castle in the Air, by Ko Hun-il, 12 pp. KOREAN, per, Kulloja, No 6, 30 June 1968, pp 52-58.
JPRS 46377

The Irreconcilable Enemy, American Imperialism, by Chon Ki-hong, 10 pp. KOREAN, per, Kulloja, No 6, 30 June 1968, pp 59-64.
JPRS 46377

Let Us Arm Ourselves With the Party's Revolutionary Traditions, 13 pp. KOREAN, per. Kulloja, P'yongyang, 30 July 1968, pp 2-8.
JPRS 46571

Further Unity of the Toilers Is Urged, 12 pp.
KOREAN, pen Kulloja, P'yongyang, 30 July 1968, pp 9-lh.
JPRS 46571

Criticism and Self-Criticism in the Anti-Japanese Guerrille Force, 18 pp. KOREAN, per, Kulloja, P'yongyang, 30 July 1968, pp 15-24.
JPRS 146571

Far East Political (Contd)

Justification of Our Party's Military Policy, 18 pp.

KOREAN, per Kulloja, P'yongyang,
30 July 1960 pp 25-33.

JPRS 46571

Revolutionary Upsurge and the Party Committee, by Kim Hak-son, ll pp. KOREAN, per, Kulloja, P'yongyang, 30 July 1968, pp 34-40.
JPRS 46571

Justification of Our Party Policy For Uniformity and Specification in Planning, 20 pp.
KOREAN, per, Kulloja, P'yongyang, 30 July 1968, pp 41-50.
JPRS 46571

Concept of Self-Identity and Our Scientific and Technological Development, by O Tong-uk, 13 pp.

KOREAN, per, Kulloja, P'yongyang,
30 July 1968, pp 51-57.

JPRS 46571

Formation and Role of the World Socialist Market, by Kye Ung-t'ae, 13 pp. KOREAN, per, <u>Kulloja</u>, P'yongyang, 30 July 1968, pp 58-64. JPRS 46571

Work for Great Task of Country's Unification, 10 pp.
KORBAN, np, Nodong Ch'ongnyon, 14 Mar 1968, p 2.
JPRS 45707

Methods of Revolutionizing Youth Described, 11 pp.
KOREAN, np. Nodong Chongnyon,
Pyongyang, 1 July 1968, p 1.
JPRS 46507

Choson Inmingun Observes 20th Anniversary, by Chu Chong-hui, 6 pp. KOREAN, np, Nodong Chongnyon, Pyongyang, 10 July 1968, p 3. JPRS 46507

Importance of Premier's Talk to Youth Stressed, 11 pp.
KOREAN, np, Nodong Chongnyon,
Pyongyang, 11 July 1968, pp 2-3.
JPRS 46507

Consolidation of Revolutionary Base Urged, 15 pp. KOREAN, np, Nodong Chongnyon, Pyongyang, 14 July 1968, pp 2-3. JPRS 46507

Foreign Personalities in Mongolia, 7 pp. AONGOLIAN, per, Various Sources.
JPRS 45836

Activities of Chaybalsan Assembly Reviewed, 5 pp. CONGOLIAN, per, <u>Ardyn Tor</u>, No 2, 1968, pp 31-33. JPRS 46,350

Work, Future Tasks of Irrigation Workers Outlined, by Ts. Penterel, 11 pp. HORGCLIAN, np. <u>Dzaluuchuudyn Unen</u>, 19 Jan 1967, p 3. JPRS 46,350

Digorsuren Addrosses Young Transport Workers, by Is. Digersuren, 7 pp. MONGOLIAN, up. Dzalunchundyn Umen, 12 Jun 1968, p. 2.
JPRS 46,350

Tsedenhal Addresses Fourth Plenum of MPRP CC, by Yu. Tsedenhal, 2 py. 1000001JAB. np. Sotsialist Modeo Al Ahuy. 11 Apr 1269, p 2. JFPS 46.350

Far East Political (Contd)

Alliance of Peaceful, Democratic Forces Formed, by Huynh Van Tieng, 6 pp.
VIETNAMESE, np, Cuu Quoc, Hanoi, 14 July 1960, pp 3, 10.
JPRS 46538

All Areas Urged to Train Well, Contribute to War, by S. H. D., 9 pp.
VIETNAMESE, np, Doc Lap, 23 Mar 1968, 23 May 1968.
JPRS 46022

Delegates to Hanoi Party Congress Interviewed, 6 pp.
VIETNAMESE, np, Hanoi Moi, Hanoi, 16 April 1968, p 3.
JPRS 46590

Le Nam Thang Reports the Situation in Hanoi, 9 pp. VIETNAMESE, np. Hanoi Moi. 24 Apr 1968, p2. JPRS 46041

Support Expressed for President Ho's Appeal, 5 pp. VIETNAMESE, per, Hoc Tap, No 7, July 1968, pp 5-11.
JPRS 46516

Party Leadership over Finance, Conmerce, Pricing Strengthened, 8 pp.
VIETNAMESE, per, Hoe Top, No 7, July 1968, pp 12-15.
JPHS 46516

Defeat the U.S. Invader's War of Destruction, by Van Tien Dung, 15 pp. VIETNAMESE, per, hoc Tap, No 7, July 1968, pp 19-31. JPRS 46516

Increase Training, Development of Women Cadre, by Vi Trong Kien, 12 pp.
VYEINAMESE, per, Hoc Tap, No 7, July 1969, pp 32-39.
JPRS 16516

Socialism Has Brought Great Progress to Poland, by Luong Phu, 5 pp.
VIETNAMESE, per, Hoc Tap, No 7, July 1968, pp 70-73.
JPRS 46516

Paris Conference Exposes Americans as Aggressors, by Luu Quy Ky, 12 pp.
VIETNAMESE, per, Hoc Tap, No 7, July 1968, pp 74-81.
JPRS 46516

Theory, Needs of Communist Education Discussed, by The Ha, 8 pp.
VIETNAMESE, np, Nguoi Giao Vien Nhan Dan. 25 Apr 1968, pp 2, 3, 6, 7.
JPRS 46041

City Compatriots Stage Uprising in the South, by Huy Hung, 5 pp. VIETNAMESE, np, Nhan Dan, 24 May 1968, p 3. JPRS 45846

General Offensive, Uprisings Reviewed, by Tran Kien, 6 pp. VIETNAMESE, np, Nhan Dan, 24 June 1968, p 3. JPRS 46077

Dai Tu District Improves Party Cell Life, 6 pp. VIETNAMESE, np. Nhan Dan. 26 June 1968, p 2. JPRS 46077

Nguyen Chi Thanh Reviews Problem of Individualism, by Nguyen Chi Thanh, 18 pp.
VIETNAMESE, np, Nhan Dan, 4 July 1968, pp 2, 3.
JPRS 46190

June War Crimes of Americans Recounted, 5 pp. VIETNAMESE, np. Mhan-dan, 8 Jul 1968, p 4. JPRS 46,252

Liberation News Agency Reports June Victories, 6 pp. VIETNAMESE, np, <u>Nhan-dan</u>, 9 Jul 1968, p 3. JPRS 46,280

Khe Sanh Evacuation is Military, Political Defeat, 5 pp. VIETNAMESE, np. Mhan-dan, 13 Jul 1968, pp 1, 4. JPRS 46,252

Far East Political (Contd)

Hanoi Seethes with Political Campaign, by Nguyen Ba Doan, 6 pp.
VIETNAMESE, np. Nhan-dan, 29 July 1968, p 2.
JPRS 46405

Doctor Spock Valiantly Unmasks U. S. Aggression, by Dieu Binh, 10 pp.
VIETNAMESE, np, Whan Dan, 2, 3 Aug 1968, p 3.
JPRS 46386

Develop Offensive Spirit Movement, by Viet-Tien, 8 pp.
VIETNAMESE, per, Quan-doi Mhan-dan, 29 Apr 1968, pp 2,3,4.
JPRS 45717

Anniversary of Birth of Karl Marx Celebrated, 7 pp.
VIETNAMESE, np, Quan Doi Nhan Dan, 5 May 1968, p 1.
JPRS 45846

Cur New Forward Step Means New Weakening of * Enemy, by Chien Thang, 8 pp. VIETNAMESE, np. Quan Doi Nhan Dan, 13 May 1968, pp 1 & 4. JPRS 45846

Victories of Vietnam Will Be Recorded in History, 6 pp. VIETNAMESE, np. Quan Doi Nhan Dan, Hanoi, 28 June 1968, p 1. JPRS 46538

Story of Victory of Khe Sanh Recounted, by Van Uyen, Phuong Hong, 8 pp. VIETNAMESE, np, Quan-doi Nhan-dan, Hanoi, 29. 30 June 1968.
JPRS 46538

American Stubbornness Revealed at Paris Talks, by Thanh Tin, 5 pp. VIETNAMESE, np, <u>Quan-doi Nhan-dan</u>, Hanoi, 15 July 1968, p 4.
JPRS 46498

Evidence of U.S. Designs on Vietnam Presented, by Trinh Sat, 7 pp. VIETNAMESE, np, Quan-doi Nhan-dan, Hanoi, 20, 21 July 1968, pp 2, 3. JPRS 46498

Korean-Vietnamese Solidarity Reaffirmed, by Odeuan, 5 pp.
VIETNAMESE, np, Quan-doi Mhan-dan, Hanoi, 27 July 1968, p 4.
JPRS 46436

Historical Context of Vietnam War Analyzed, by Hong Son, 17 pp. VIETNAMESE, per, <u>Tuyen Huan</u>, Hanoi, No 8, August 1968, pp 12-22. JPRS 46594

Township Outlines Four-Point Ideological Program, by Bac Ha, 13 pp. VIETNAMESE, per, Tuyen Huan, Hanoi No 8, August 1968, pp 42-47.
JPRS 46594

Military

Some Types of Atomic Powered Rockets, by Shu Ch'i. CHINESE, per, Hang K'ung Chih Shih, No 3, 1960, pp 17-18. *FTD-HT-23-838-68C

Chinese Communists Mobilizing in Yunnan and Kwangsi, no author CHINESE, np, Hsin Shen Pao, No 8134, 12 Mar 1968, p 1. *FTD-HT-23-845-68C

Model Z28-1 Vibration Pickup, no author, CHINESE, np, Jen Min Jih Pao, No 7167, 1968, p 6. *FTD-HT-23-847-68C

Ethnography of the Military Territories. FRENCH, bk, Ethnographie des Territories Militaires, 1904, pp 71-72, 157, 165-242. 44081 J-5497
ID 2204017468

Far East Military (Contd)

Kupriyanov Writes About Captured American Pilot, by Ivan Kupriyanov, 5 pp. MONGOLIAN, bk, <u>Utga Dzohiol Urlag</u>, Ulan Bator, 9 August 1968, pp 3, 4. JPRS 46436

American Withdrawal from Khe Sanh Analyzed, 6 pp. VIETNAMESE, per, Hoc Tap, No 7, July 1968, pp 40-44.
JPRS 46516

Program Outlined for Militia, Self-Defense Forces, by Tran Loc, 13 pp. VIETNAMESE, per, Hoc Tap, No 7, July 1968, pp 45-52.
JPRS 46516

Policy Toward Heroes, Emulation Fighters Laplemented, by Nguyen Van Tao, 5 pp. VIETNAMESE, per, Nhan Dan, 28 Apr 1968, p 2. JPRS 45717

Victories During May Offensive Recounted, 13 pp. VIETNAMESE, np. Nhan-dan, 20 May 1968, p 2. JPRS 46,358

Liberation Army Fights Enemy in Central Trong Bo, 5 pp.
VIETNAMESE, np. Nhan Dan, 2 June 1968, p 3.
JPRS 46041

United States, SVN Forces are on the Defensive, 5 pp. VIETNAMESE, np. Nhan-dan, 12 June 1968, pp 1, 2. JPRS 46078

SVN Cities Become Raging Battlefields, by Giang Nam, 7 pp. VIETNAMSE, np. Nhan-dan, 12 June 1968, p 3. JPRS 46078

American 'War Crimes' in Panhandle Denounced, 5 pp. VIETNAMESE, np, Nhan-dan, 12 June 1968, p 3. JPRE 46078

V

Far East Military (Contd)

Americans Lust Accept Collapse of Puppet Army, by Ha Dang, 7 pp.
VIETLATESE, np, Nhan-dan, 18 June 1968, p 3.
JPRS 46199

U.S. Ahe Sanh Strategy Proves Ineffectual, by Anh Hong, 11 pp.
VIETUALESE, np. <u>Than-dan</u>, 16, 17 Jul 1968, P 3.
JPRS 46,353

Humiliated V. S. Marines Withdraw from Khe Sanh, by Ash Hong, 5 fr. VENTUALESE, or, <u>When-dan</u>, 17 Jul 1968, p 3. JPRS 46,358

Care for Wounded Soldiers and Their Families, by Ung Van Khiem, 7 pp. VIETNAMESE, np. Nhan-dan, Hanoi, 28 July 1968, p 3.
JPRS 46436

Protect Health of Troops luring Summer, by Vu Van Can, 5 pp. VIETNAMESE, np, Quan Doi Mhan Dan, 17 Apr 1968, p 2. JPRS 45846

Accomplishments of Rear Services Branch Praised, 5 pp. VIETNATES, ap, Quan Doi Iman Dan, 9 May 1968, p 1. JPRS 45846

Methods of Ideological Work Adopted by Armed Forces, 16 pp. VIETNAMESE, np. Quan Doi Mhan Dan, 8, 9 % 11 May 1963, p 3. JPRS 45346

Military Region 3 Finds, Trains Cadres, by Nguyen Quyet, 10 pp.
VIETNAMESE, np. Quan-doi Mhan-dan, 22, 23 May 1963, p 3.
UPRS 45346

Far East Military (Contd)

Efforts of Military Region Four Are Successful, by Le Quang Hoa, 11 pp. VIETNAMESE, np. Quan-doi Nhan-dan, Hanoi, 30 June 1968, p 3. JPRS 46538

Policies for Wounded Soldiers, Dependents Listed, 5 pp. VIETNAMESE, np, Quan Doi Nhan Dan, Hanoi, 25 July 1968, p 3. JPRS 46436

North Vietnam Stresses Training of Cadres, by To Huu, 18 pp. VIETNAMESE, per, <u>Tin-thuc Hoat-dong Khoa-hoc</u>, January 1968, pp 1-12.

JPRS 45,954

Campaign Set to Raise Confidence in War Line, 13 pp.
VIETNAMESE, per, Tuyen Huan, Hanoi
No 8, August 1968, pp 4-11.
JPRS 46594

First Six Months of General Offensive Analyzed, by Ha Van, 11 pp. VIETNAMESE, per, Tuyen Huan, Hanoi, No 8, August 1968, pp 28-34.
JPRS 46594

Sociological

Demographic Notes on a White Meo Canton of Thailand, by Guy Morechand.
FRENCH, per, Bulletin de la Societe des Etudes Indochinoises, Vol 27, No 3, 1952, pp 355-361.
**ACSI J-5497
ID 2204017468

Swiss Student Comments on Cultural Revolution, by J. F. Hilleter, Buth Fadrum, 16 pp. FRENCH, per, Croissance de Jeunes Nations, July-Aug 1968, pp 19-26.
JrRS 46277

Far East Sociological (Contd)

"Languages" in French Colonial Empire:
"IndoChina", by Henri Maspero.
FRENCH, bk, Un Empire Colonial Francais
L'Indochine, Vol 1, 1929, pp 63-80.
#ACSI J-5497
ID 2204017468

White Thais and Black Thais (Part 1), by Henri Roux.

FRENCH, per, Extreme-Asis, No 90, 1934, pp 943-956.

*ACSI J-5497
ID 2204017468

White Thais and Black Thais (Part 2), by Henri Roux.
FRENCH, per, Extreme-Asie, No 91, 1934, pp 996-1006.
**ACSI J-5497
ID 2204017468

White Thais and Black Thais (Part 3), by Henri Roux.
FRENCH, per, Extreme-Asie, No 92, 1935, pp 1041-1049.
*ACSI J-5497
ID 2204017468

The Three Great Races of Yun-nan Province, by Hsu Itang.
FRENCH, bk, Les Trois Grandes Races de la Province du Tun-nan, 1932, 180 pp.
44CSI J-5457
ID 2204017468

Improvement of Educational System Discussed, by D. Gombosuren, 9 pp.
MCNGOLIAN, per. Surgan Humunjunlegeh, No 3, 1967, pp 9-18.
JPRS 45836

Foreign Personalities in Mongolia, 5 pp. MONGOLIAN, per, <u>Ulan Bator</u>, Mar-Jun 1968. JPRS 46,282

Township Discusses Success in Education Work, by Nguyen Phuc Viet, 13 pp.
VIETNAMESE, per, Hoc Top, No 7, July 1968, pp 61-69.
JTRS 46516

Far East Sociological (Contd)

Saigon Literature, Art is Decadent, Unpersuasive, by Boi Lan, 12 pp.
VIETNAMESE, per, Hoc Tap, No 7, July 1968, pp 82-89.
JPRS 46516

Factory Canteen Keeps workers Happier, Healthier, by Bui Thi Lien, 5 pp.
VIETNAMESE, np, <u>Lao Dong</u>, 15 May 1968, p 3.
JPRS 46041

Tay-Thai Ethnic Groups in Vietnam Described, by Dang Nghiem Van, 24 pp.
VIETNAMESE, per, Nghien Cuu Lich Su, No 3, Mar 1968, pp 24-36.
JPRS 46386

'Shopping Centers' Organized for Hanoi Workers, by Tran Nguyen, 5 pp. VIETNAMESE, np. Mhan-dan, 12 June 1968, p 2. JPRS 46078

Biographic

Biographic Information on Mongolian Personalities, 10 pp.
MONGOLIAN, per, <u>Wlan Bator</u>, Mar-Jun 1968.
JPRS 46,282

Life Story of Nguyen Thi Dinh Published, by Phan Mhan, 10 pp.
VIETNAMESE, np, Tap Chi Van Hoc, Apr 1968, pp 5-14.
JPRS 46300

Biographical Sketch of Karl Marx Published, 7 pp. VIETNAMESE, per, <u>Tuyen Huan</u>, May 1968, pp 4-7 JPRS 45,941

LATIN AMERICA

Economic

New Pasta Factory in Cuba Means Better Nutrition, by Alberto Pozo, 8 pp. SPANISH, np. Bohemia, 2 Aug 1968, pp 24-29. JPRS 46373

Finance Minister Interviewed on Reform, 12 pp. SPANISH, np. Caretas, 28 June-11 July 1968, pp 12, 12a, 12b, 12c.
JPRS 46188

Socio-Economic Survey of Santa Fe's Forest Zone, 53 pp.
SPANISH, per, Cristianismo y
Revolucion, Buenos Aires, July 1968, pp 3-13.
JPRS 46443

Five-Year Sugar Industry Plan Discussed, 5 pp. SPANISH, np. <u>Juventud Rebelde</u>, 17 Jun 1968, p 6. JPRS 46,285

Bank Board Number Defends Anti-Devaluation Stand, by Julio Herrera Vargas, 7 pp. Sranish, np. Marcha, Montevideo, 15 Aug 1968, pp 8, 18. JPRS 46522

Sugar Industry Flans to Heet Labor Shortage, by Jorge Fernandez, 7 pp. SPANISH, per, Verde Clivo, 21 July 1968, pp 20-23. JPRS 46373

Political

Book Talks of Guevara, Latin American Revolution, by Jean Larteguy, 15 pp.
GERMAN, per, <u>Der Spiegel</u>, 29 Jul 1968, pp 54-55; 57-60; 62-65.
JPRS 46,285

French Journalist Interviewed Che Guevara, by Jean Marcilly, 5 pp. GERMAN, per, <u>Der Sniegel</u>, 29 Jul 1968, pp 62-63. JPRS 46,285

Latin America Political (Contd)

South American Leftist Author Views Che Guevara, by Tristan Marof, 5 pp. GERMAN, np. <u>Die Zeit</u>, Hamburg, 23 August 1968, pp 5-6. JPRS 46539

Ideology of Ernesto Che Guevara Explored, by Peter Schenkel, 23 pp. GERMAN, per, Vierteljahresberichte, Bad Godesberg, June 1968, pp 137-153. JPRS 46539

Brazilian CPs Analyze Split, Side With Mao, 7 pp. PORTUGUESE, np. Jornal do Brasil, Rio de Janeiro, 25 August 1968, p 19. JPRS 46539

Brazilian Communists Continue Division, 7 pp.
PORTUGUESE, np, Jornal do Brasil,
Rio de Janeiro, 1 September 1968, p 35.
JPRS 46539

Bolivian Communists Fromise to Oust Dictatorship, 12 pp. SPANISH, 23 June 1968, pp 1-17. JPRS 46340

Women Who Fought in Escambray Recall Experiences, by Javier Rodriques, 14 pp. SPANISH, np. Bohemia, 9 Aug 1968, pp 12-16.
JPRS 46373

Plutocracy Faces the ICAP, by Mario Herrera Gray, 5 pp. SPANISH, np, El Comercio, 12 May 1968, pp 8-9. JPRS 45719

Bolivia's Third Highest Official Flees to Chile, by Fernan Millas, 6 pp. SPANISH, per. <u>Evoillas</u>, 24-30 July 1968, pp 9-11. JPRS 46340

Communist Party Leader Discusses
Che Guevara, by Mario Monje, 18 pp.
SPANISH, np. Expresso, Lima,
20 July 1968, pp 16-17, 22 July 1968,
pp 16-17.
JPRS 46443

Latin America Political (Contd)

Manifesto of Mexican Communist Party Given, 5 pp. SPANISH, mp, Excelsior, Mexico City, 4 August 1968, p 8. JPRS 46443

Arguedas, CIA and 'Che" Guevara's Diary, 6 pp. SPANISH, np, Gente, Lima, 28 August 1968, pp 27, 28, 29, 30, 31, 34. JPRS 46539

Personal History of Revolutionary Hero Given, by Ledro Abreu, 5 pp. SPALISH, np. Granma, 8 July 1968, p 4. JFRS 46373

rreparations in Santa Clara for 26 July Event, by Isidro rineda, 5 pp. SPANISH, np. Granma, 23 July 1968, p 3. JRRS 46373

Achievements and Problems in oriente Discussed, by Guillermo Garcia, 7 pp. SPACISE, no. Granna, 24 July 1968, p 4. JPRS 46362

Isle of Pines Progressing on Road to Communism, by Margarita Torres, Mary Cruz, 7 pp.

SPANISH, np, Gramma, Havana, 12 August 1968, p 1, 5, 13 August 1968, p 4, 14 August 1968, p 5.

JPRS 46443

Tupamaros Liberation Movement Conducts Struggle, 5 pp. Scanisi, np. Granma, Havana, 19 Aug 1968, p 7. JPRS 46522

rerayion Communist Official Talks about Elections, by Jorge del Prado, 5 pp. SPANISH, per, Loa, ray 1963, pp 6-7. JPRS 4571)

Statements hade by BOCI Hembership Drive Horkers, 5 pp. STALISH, np. Libertad, 3 Aug 1968, p 6, 7. JRES 46362

Latin America Political (Contd)

Biography Sheds New Light on Ernesto "Che" Guevara, by Ricardo Rojo, 14 pp. SFANISH, np, Marcha, 10 May 1968, pp 16-18. JPRS 45719

Prospects for a Coup in Argentina, by Carlos Maria Gutierrez, 6 pp. SPANISH, np, Marcha, 10 May 1968, pp 22-23. JPRS 45719

Mar Between Chile, Argentina is lossible, by Ted Cordova-Claure, 6 pp. SFAWISH, np. Larcha, 2 Aug 1968, p 15. JPRS 46362

Velasco wins Fifth Presidential Term in Ecuador, by Julio Castro, 5 pp. SPANISH, np. parcha, 9 Aug 1968, p 19. JPRS 46340

Trend to Left Seen in New President's Views, 5 pp.
SPALISH, np, Mercha, Montevideo, 15 August 1968, p 15.
JPRS 46539

Police Actions During University Raid Reported, by Daniel Waksman Schinca, Jose Manuel Quijano, 11 pp. SrANIS.i. np. rarcha, Montevideo, 15 Aug 1968, pp 24, 10, 18. JFRS 46522

Reflections on Ernesto Guevara's Diary Voiced, 13 pp.
SPANISH, per, Mensaje, Chile, No 171, August 1968, pp 333-338.
JPRS 1,6143

Soviet Ambassador Served USSR Well in Chile, 8 pp. SPANISH, np, PEC, 8 Far 1968. JPRS 46188

Historical Analysis of Chilean Communism, 10 pp. SPANISH, np, PEC, 10 May 1968, pp 5-8. JPRS 45719

Latin America
Political (Contd)

Preview of March Elections in Valparaiso, by Faul Dubois, 7 pp. SPANISH, np. <u>PrC</u>, 5 July 1968, p 10. JFRS 46188

Last Three Elections in Aconcagua Studied, by Paul Dubois, 6 pp. SPANISH, np, <u>PEC</u>, Santiago de Chile, 26 July 1968, p 4. JPRS 46643

Youth Leader Looks at Revolution in Latin America, by Guillermo Atias, 6 pp.
SPANISH, np. Plan, Santiago de Chile, 31 July 1968, p 3.
JPRS 46043

leftist Liberation Front Issues Resolutions, 5 pp.
5 pp.
5 PANISH, np. El Popular, 21 July 1968, p 12.
JPRS 46373

Leftist Liberation Front Expands in Countryside, 5 pp. 37ANISH, np. 11 Popular, 23 July 1968, p 12. JPRS 46373

Communist Leader Urges End to Emergency Leasures, by Rodney Arismendi, 6 pp.
SPANISH, np. El Popular, Montevideo, 20 Aug 1968, pp 1, 5.
JFRS 46522

Injustice Promotes Violence in Chihuahua, by Mario Menendez Rodriguez, 12 pp. SPANISH, np. Por Que, Mexico City, 28 August 1968, pp 16-22. JPRS 46539

Bolivian Interior Minister Discusses Che's Diary, by Antonio Arguedas, 15 pp. DPAMIDM, np. <u>Ia Republica</u>, 31 July 1968, p 7. JPRS 46362 Latin America Political (Contd)

Interview With Stokely Carmichsel Reported, by Raul Castellano II, 7 pp.
SPANISH, np, Siempre, Mexico City, 4 September 1968, pp 44-45.
JPRS 46539

Causes of Votor Abstention Investigated, 8 pp. SPANISH, np. El Siglo, 16 May 1968, pp 1, 3. JPRS 45719

Interview with Chilean Communist Party Head, 7 pp. 5PANISH, np. El Siglo, 2 July 1968, p 12. JPRS 46188

Uribe Rueda Gives Views on Political Situation, by Elias Matus, 6 pp. SPANISH, np. <u>El Siglo</u>, 31 Jul 1968, p 7. JPRS 46,285

Legislator Describes Role of Conservatives, by Elias Natus, 9 pp.
SPANISH, np. El Siglo, 6 Aug 1968, pp 9, 17.
JPRS 46340

Liberals Seek Federal System, by Gabriel Gutierrez, 6 pp.
SPANISH, np. El Tiempo, 12 May 1968, pp 1, 27.
JPRS 45719

Colombian President Urges Reform Passage, by Gabriel Ortiz, 5 pp. SPANISH, np. El Tiempo, 19 May 1968, pp 1, 25. JPRS 45719

Closer Colombian-Eduadorian Relations Urged, 6 pp.
Sranish, np. <u>11 Tiempo</u>, 6 Aug 1968, pp 1, 28.
Jrhs 46340

Communist Leader Slames Guerrilla Defeat on Cuba, by Oscar Zamora M., 14 pp. SFANISH, np. Los Tiempos, 14 July 1968, pp 1, 6. JPRS 46362

Latin America Military

Chile's Military Speak Out, by Fernando Reyes Matta, 8 pp.
SPANISH, np. Siete Dias, 10 May 1968, pp 16-18.
JPRS 45719

Sociological

The Development of Psychology in Cuba Outlined, by Jose A. Bustamente, 10 pp.
RUSSIAN, per, Voprosy Psikhologii, No 3, 1968, pp 156-160.
JPRS 46188

New Rural Orientation Program Described, by Orlando Fundora, 7 pp. SrAhlSH, np. Granma, 8 July 1968, p 2. JPRS 46373

Population Growth Worries Alliance for Progress, by Jose Manuel Quijano, 7 pp. SPANISH, np. Marcha, Montevideo, 9 August 1968, pp 23-24. JPRS 46539

University Admission Requirements Given, llt pp. SPANISH, np, El Mundo, Havana, 20 August 1968, p 5. JPRS 46443

Front Gives Views on Sociological Problems, 9 pp. SPANISH, np. El Popular, 25 July 1968, p 7. JPRS 46373

Priests Ask for Changes, 5 pp.

SPANISH, np, Los Tiermos, 9 May 1968, p 5.

JPRS 45719

Cuba Enlists Aid of Population in Farm Work, by Raul Diaz Arguelles, 8 pp. SPANISH, per, Verde Olivo, 28 July 1968, pp 63-66.
JPES 46573

SCIENTIFIC

Aeronautics

Aviation Materials Study, by 8. K. Vul'f. RUSSIAN, mono, Aviatsionnoye Faterialovedeniye. 3d kd, 1967, rart 4, pp 210-233; Part 5, pp 241-301; Part 7, pp 381-385. *FTD-Hf-23-832-68C

Winter: Landing Under Conditions of Ice-Formation, by 0. Trunov, 7 pp. RUSSIAN, bk, Aviatsiya I Priroda, pp 1-2. Pl00228368-V FTD-HT-23-643-67

The Hydrostatic Bearing as a Source of Vibrations, by G. A. Ivanov.
RUSSIAN, bk, <u>Issledovaniye Vibratsii i Prochnosti</u>
Detaley Aviadvigateley, 1967. pp 89-93.
*FTD-HT-23-811-68

Nonlinear Theory of Wings With Small Aspect Ratios, by S. D. Yermolenko, 15 pp.
RUSSIAN, per, Izvestiya Vysahikh
Uchebnykh Zavedeniy. Aviatsionnaya
Tekhnika, No 2, 1966, pp 9-18
F100208868-V
FTD-HT-67-177

On the Equation of the Relative Weights of an Aircraft, by N. A. Fomin.
RUSSIAN, per, IVUZ. Aviatsionnaya Tekhnika,
No 4, 1967, pp 149-154.
*FTD-MT-24-348-68

Methodology, Minimum Weather Takeoff and Landing from Soviet Airports. RUSSIAN, bk. Metodika Rascheta Manevrirovaniya a Opredeleniya Minimumov Pogody Dlya Valetai Posadki Samoletov v Ayeroportakh Grashdanskoy Avianii SSSR, 1967, pp 1-61.

Passenger Aircraft IL-62, RUSSIAN, bk, <u>Passenhirskiy Samolet IL-62</u>, 1968, pp 1-149. *FTD-::T-24-331-68

Scientific Aeronautics (Contd)

Peculiarities of the Optimization Process of High-Speed Soaring Flight, by Ye. P. Vachasov RJSSIAN, per, <u>Samoletostroyeniye i Tekhnika Vozdushnogo Flota</u>, No 9, 1967, pp 3-8.
*FTD-HT-23-852-68C

Target of Life, by A. S. Yakovlev, 471 pp.
RUSSIAN, bk, Tsel' Zhizni (Zapiski Aviakonstruktora), 1966, pp 1-543.
P100231268-V
FTD-HT-23-956-67

Determining Lift of a Wing Profile at Instantaneous Change in Angle of Attack, by A. A. Kosmodem'Yanskiy, 10 pp.
RUSSIAN, per, Moscow. Universitet.
Vestnik. Seriya I. Matematika,
Mekhanika, No 5, 1965, pp 52-60.
P100230768-V
FTD-HT-67-427

A Heat-Shielding Design for Aircraft, by Yu. M. Petrov, A. S. Sherr, 2 pp. RUSSIAN, Patent 169,408. P100228568 FTD-HT-67-122

Aircraft Doors, by Yu. F. Belous, G. P. Bily 2 pp.

RUSSIAN, Patent 192527 (1011628/40-23) Class 62b, 14/10. F100229268

FTD-HT-23-966-67

Egyptian Supersonic Fighter History Discussed, 5 pp.
ARABIC, np. al-Tali'ah, 26 June 1968, pp 10-11.
JPRS 46301

Aircraft AH-24B, by M. Vyletal, 9 pp. CZECH, per, Letecky Obsor, No 8, 1964, pp 228-230. P100241868-V

Director Discusses Csech Aviation Industry, by Josef Micoch, Stanislav Plasil, 10 pp. CZECH, per, A Revue, No 12, Jun 1968, pp 80-88, JPRS 46,279

Scientific Aeronautics (Contd)

New Light-Construction Methods in Synthetics for Lifting Parts in Aircraft Construction. Development of the Complete GFK Experimental Aircraft, L F U 205.
GERMAN, bk, Leichtflugtechnik-Union GMBH, 1968, pp 1-13.
*FTD-HT-23-796-68

The Results of the Test Conducted up to the Present Time, with the GFK-Elevator for the TRANSALL C 160, by Cartellieri.
GERMAN, bk, Vereinigte Fluctechnische Werke GMBH, 1968, pp 2-8.
*FTD-HT-23-797-68

The TU-134, the Latest Soviet Turbojet Passenger Transport, 4 pp. HUNGARIAN, per, Repules, No 12, 1964, pp 4-5. P100218168-V FTD-HT-23-1023-67

Agriculture

Expanded Grain Production Urged in the Ukraine, by M. Sinitsa, 5 pp. RUSSIAN, np. <u>Ekonomicheskaya Geneta</u>, No 26, June 1968, p 29. JPRS 46085

Improvements Needed in Vegetable Growing, by V. Varavka, V. Brun'ko, 6 pp. RUSSIAN, np. Ekonomicheskaya Gazeta, No 26, June 1968, pp 32.

JPRE 46085

Soil Conservation Reasures Urgently Needed, by A. Miryukhin, 6 pp. RUSSIAN, np. <u>Boonout cheekaya Gaseta</u>, No 27, June 1968, pp 30-31.
JPRS 46180

Autonomous Financing Operations on Sovkhoses, by V. Prosin, o pp. RESSIAN, up. Monomicheskaya Gazeta, No 28, July 1968, p 30. JFRS 46180

Scientific
Agriculture (Contd)

Problems of Mineral Fertilizer Production, by V. Brun'ko, N. Yanovskiy, 9 pp. RUSSIAN, np, Ekonomicheskaya Gaseta, No 29, Jul 1968, pp 18-19.

JPRS 46,315

Improvements in RSFSR Grain Production, by L. Florent'yev, 12 pp. RUSSIAN, per, <u>Ekonomika Sel'skogo Khosyaystva</u>, No 6, 1968, pp 8-15.
JPRS 46042

Kazakhstan: Major Granary of Nation Praised, by G. Mel'nik, 12 pp.
RUSSIAN, per, <u>Ekonomika Sel'skogo Khosvaystva</u>, No 6, 1968, pp 16-23.
JPRS 46042

Production of Grain in Ukraine Increases, by P. Doroshenko, 12 pp.
RUSSIAN, per, <u>Economika Sel'skogo Khozyaystva</u>, No 6, 1968, pp 24-31.
JPRS 46042

Fertilizer Utilisation and Increased Harvest, by A. Artyushin, 8 pp. RUSSIAN, per, <u>Economika Sel'skogo Khosyaystva</u>, No 6, 1968, pp 103-107. JPRS 46042

Agricultural Procurements Deficiency Described, 10 pp.
RUSSIAN, per, <u>Miconcerika Sel'skogo Khorvaystva</u>, No 7, 1968, pp 1-7.
JPRS 46267

Grain Production Shortcomings in Latvian SSR, by V. Stroganov, 7 pp. RUSSIAN, per. Economica Sel'akogo Khosvavstva, iso 7, 1968, pp 13-17.
JPRS 46267

Shortcomings in Land Reclamation Operations, by B. Ol'khovekaya, A. Dolenko, 8 pp. RESIAN, np. Levestim, 16 June 1968, p 3. JPRS 46085

Shortcomings in Land Reclamation Operations, by A. Dolenko, B. Ol'khovskaya, 9 pp. RUSSIAM, np. <u>Levestive</u>, 21 June 1968, p 3. JPRS 46085

Scientific
Agriculture (Contd)

Legal Frinciples of Land Use Discussed, by A. Ivanov, 6 pp.
RUSSIAN, np. Izvestiya, 3 Aug 1968, p 2.
Jrns 46361

Mazakh C. Flenum Discusses Grain Marvest Flans, 13 pp. RUSSIA., np. Mazakhstanskaya Pravda, 31 July 1968, pp 1-2. J. 15 46416

Agricultural Supply Needs Improvement, by I. Karlyuk, 8 pp.
RUSSIAN, per, Paterial no-Tekhnicheskoye
Snabzheniye, No 5, 1968, pp 42-47.
JPRS 46085

Agricultural Trends in CEMA and EEC Countries, by L. Zlomanov, G. Kozhevnikova, 11 pp.
RUSSIAN, per, Mezhdunarodnyy Sel'skokhozyaystvennyy Zhurnal, No 4, 1968, pp 3-7.
JPRS 46527

CEMA Mineral Fertilizer Output and Consumption, by V. Mordasov, I. Borodkin, 13 pp.
RUSSIAN, per, <u>Mezhdunarodnyy</u>
Sel'skokhozyaystvennyy Zhurnal, Moscow, No 4, 1968, pp 8-13.
JPRS 46527

International Mineral Fertilizer Machines Tested, by E. Stepanyants, A. Shcherlov, 10 pp.
RUSSIAM, per, Mezhdunarodnyy Sel'skokhozyaystvennyy Zhurnal, Moscow, No I;, 1968, pp 99-103.
JPRS 1,6527

Cultivation and harvesting of Sunflowers, 5 pp. RUSSIAH, np. Sel'skaya Zhim', 15 June 1968, p 1. Jans 46035

whortcomings in .ond (ish preeding Macussed, by ... manyayev, 5 th. Attolia., np. wellskaya <u>Khizni</u>, 13 July 1968, p 4. Jaku 40295

Scientific Agriculture (Contd)

New Draft of Land Legislation for USSR, 22 pp. RUSSIAN, np, Sel'skaya Zhizn', 26 July 1968, pp 1-2. JPRS 46361

Shortages of Tractor and Machine Parts, by V. Soldatov, 5 pp. RUSSIAN, np, Sel'skaya Zhizn', Moscow, 15 August 1968, p 2. JPRS 46448

Leap Ahead in Soviet Agriculture Discussed, by r. Lemeshev, 11 pp.
RUSSIAN, per, Voprosy rkonomiki, No 7, 1968, pp 34-43.
JPRS 46361

Grain Storage Facilities in the Auban Noted, by r. ryazantsev, T. rriyma, 8 pp. albsian, per. Zakupki Selskokhozyaystvennykh rroducktov, no 7, 1968, pp 1-5.

Problems of Agricultural Cooperatives
Reviewed, by Omer Mero, 5 pp.
ALBANIAN, mp. Bashkimi, Tirana,
20 July 1968, p 2.
JPRS 46439

Tobacco Fermers Urged to Increase Yield, by T. Laco, A. Cerma, 8 pp. ALBANIAN, np. Zeri i Fopullit, 29 May 1968, p 3. JPRS 46031

Sprinkler method Used in Land Irrigation, 5 pp. AkAdlC, np. al-Ahram (oupplement), 10 July 1968, p 2. J. 646301

Technical Progress in Animal Musbaniry, 6 pp. BULGARIAN, per, Zhivotnovodstvo, No 4, Apr 1964, pp 1-4.
JTRS 45635

Animal Husbandry Urged to Pulfill Plan Quotas, 6 pp. RULDARIAN, per, Zhivotnovudstvo, Sofia, No 6, 1968, pp 1-3.
JPRS 46570

Scientific Agriculture (Contd)

Agricultural Price Changes Reviewed by Scientist, by Vladimir Janicek, 8 pp. CZECH, per, Socialisticke Zemedelstvi, No 22, 31 Pay 1968, p 5.
JFRS 45887

Czech Veterinary Expedition in Mongolia Described, by Vacav Vasak, 9 pp. CZECH, per, <u>Veterinarstvi</u>, No 4, Apr 1968, pp 182-185. JPRS 45836

Development of Ferlo By Irrigation Urged, by Reland Diagne, C pp.
FMARICH, np. Afrique Houvelle, 25-31 Jul 1963, p.2.
JPRS 46,357

Report Issued on 1967-1968 Cotton froduction, 5 pp.
Fig. Co., per, bulletin de l'Afrique Roire, 24 July 1963, pp 10417-10420.
Jens 46392

Congolese Agriculture Needs a New Start, 7 pp. FRENCH, per, Civilisations, Vol 18, No 1, 1968, pp. 52-58.

JFRU 46278

Crop and Weather Report Given for April, by immbiegel, 5 pp. GERMAL, per, Feldwirtschaft, Jun 1968, pp 287-268.

July 45887

Prop and Monther Report, June 1966, by D. Krumbiegel, 5 pp. GLERAL, per, Feldwirtschaft, No S. Aug 1968, pp. 335-385.
USBS 46,374

July 1968 Crop, Weather Report, Crop Predictions, by D. Krumbiegel, 5 pp. GERMAN, per, <u>Feldwirtschaft</u>, East Borlin, September 1968, pp 431-432. JPRS 46570

National Plant Protection Forecasting Network Begins, by Sandor Erdei, 6 pp. HUNGARIAN, np. Magyar Mezonardasag, Rudapest, 31 July 1968, pp. 14-15. JPRS 46439

Scientific Agriculture (Contd)

Local Industrial Plants Must Be Developed by All the People, by Im Kyong-sik, 14 pp. KOREAN, per, Kulloja, No 6, June 1968, pp 45-51.

JPRS 46377

Instructions on Raising Young Livestock Given, 12 pp.
HONGOLIAN, per, Hodoo A1 Ahui, No 1, 1967, pp 16-24.
JPRS 45836

Proper Care and Utilization of Forests Urged, by 0. Tobuu, 5 pp. MONGOLIAN, per, Hodoo Aj Ahuy, Ulan Bator, No 1, 1967, pp 67-70.
JPRS 46426

Tasks of Federation of Agricultural Cooperatives, by S. Lubsandorj, 5 pp. MONOCIAN, per, Hodeo aj Ahui, No 3, 1967, pp. 16-18, 31.
JPRS 46,350

Protection of Livestock from Blizzards Urged, 22 pp. LONGOLIAN, np. Sotsialist Hodeo Aj Ahuy, 27 Jun 1968, pp 4, 5. JPRS 46,249

GUCWA Discusses Effects of New Farm Policy, by Stunislaw Gucwa, 7 pp. POLISH, np, <u>Chlopska Droga</u>, 14-17 Apr 1963, pp 5-6. JPRS 45605

New Varieties of Winter Wheat Discussed, by Stanislaw Mroz, 9 pp. POLISH, per, Nowe Rolnictwo, Warsaw, 1-15 July 1968, pp 27-30.
JPRS 46514

Good Lant Managerant An a Problem of National Interest, by N. Gionan, 5 pp. RUMANTAN, per, <u>Agricultum Socialinta</u>, 16 May 1963, pp 1 & L. JPRS 45685

Scientific Agriculture (Contd)

officials outline schanisation of Agriculture Plan, 13 pp.
RUGANIAN, per, Buletinul official al Republicit
Socialiste Romania, No 74, Fart I, 7 June 1968,
pp 572-577.
JPRS 46031

Scientific Research in Agriculture Surveyed, by Grigore Obrejanu, 8 pp. RUMANIAN, np. Viata Economica, 26 July 1968, p 5.
JPRS 46393

Agricultural Stagnation Noted in Vojvodina, by Aleksandar Mancic, 5 pp. SERBO-CROATIAN, np. Politika, 13 Aug 1968, p 7. JPRS 46393

1967 Agricultural Production Reviewed, by Milovan Rakovic, Danilo Babic, 9 pp. SERBO-CROATIAN, per, Poljoprivreda, Apr 1968, pp 30-36.
JPRS 46040

Revolution Brought Stability to Sugar Producers, 5 pp. SPANISH, np. Granma, 15 Jun 1968, p 5. JPRS 46,285

Ten Edllion Ton Annual 1970-80 Sugar Production, by Joaquin Oramas, 6 pp. SPANISH, np. Granma, 22 July 1968, p 3. JPRS 46340

Water Resources Institute Expands Irrigation Systems, by Lisanka, 7 pp. SPANISH, per, Verde Olivo, 28 July 1968, pp 73-77.
JPRS 46373

Hai Hung Province Sets Objectives for Agriculture, by Nguyen Hoai Bac, 5 pp. VIETNAMESE, np, Nhan Dan, Hanoi, 6 June 1966, p 2.
JPRS 46436

Measures to Improve Thai Binh Rice Crop Listed, by Hau Tho, 14 pp.
VIETNALESE, np. Nhan Dan, 7, 8 June 1968,
JPRS 46041

Scientific Agriculture (Contd)

Thanh Cai Ends 5th-Honth, Starts 10-th Honth Crop, by Vu Can, Ho Van, 7 pp. VIETRAMESE, np, Mhan-dan, 12 June 1968, p 2. JPRS 46078

Nam Ha Organizes to Increase Rice Yield, by Van Son, 7 pp.
VIETNAMESE, np, Nhan Dan, 14 June 1968, p 2.
JPRS 46022

Tien Son District Prepares for 10th-Month Crop, by Fanh Hong, Mai Phong, 7 pp. VIETNAMESE, np. Nhan-dan, 17 June 1968, p 2. JPRS 46190

Covered Furrows Increase Yield of Sweet Fotatoes, by Pham Ngoc Kinh, 6 pp. VIETNAMESE, np, Nhan-dan, 18 June 1968, p 2. JPRS 46199

Local Industry Helps Agriculture Attain Goals, 11 pp. VIETNAMESE, np. Mhan Dan , Hanoi, 10, 11 August 1768, p 2. JPRS 46555

Mountain Area Agriculture, Forestry Reviewed, by Tran Quoc Manh, 15 pp. VIETNAMESE, per, Tuyen Huan, Hanoi, No 8, August 1968, pp 35-41.
JPRS 46594

Astronomy & Astrophysics

Isophots of Zodiacal Light and Its Terrestrial Component, by N. B. Divari, N. I. Komarnitskaya. RUSSIAN, per, <u>Astronomicheskiy Vestnik</u>, Vol II, No 2, 1968, pp 102-107. P910225168-V Sci Tech Info Facility ST-AA-ID-10731

Determination of the Photographic Position of an Object With the Aid of Two and Three Reference Stars, by A. N. Daych. RUSSIAN, per, Astronomichesky Emural, Vol 25, No 2, 1948, pp 44-55. F910172168-V Sci Tech Info Pacility ST-OA-CH-10712 Scientific Astronomy & Astrophysics (Contd) Scientific Astronomy & Astrophysics (Contd)

Investigation of Venus Backscattering Diagram at 40 CM, by Yu. N. Aleksandrov, B. I. Kusnetsov. RUSSIAN, per, Astronomicheskiy Zhurnal, Vol 45, No 2, 1968, p 371-377. P910172368-V Sci Tech Info Facility ST-IFS-RA-10720

Materials for Astronomical Mirrors, by
Zh. M. Loretsyan.
RUSSIAN, rpt, Soobshcheniya Byurakanskoy
Chservatorii, Vypusk 38, Str. 72-87 Izd-vo
V. A. Ambartsumyana Akademii Nauk Arayanskoy
SSR, 1967. P910171868
Sci Tech Info Facility
ST-MR-CA-10702

Re-Reduction of Observations of FKSZ Stars Into the FKh System, by A. G. Oborneva, 8 pp.
RUSSIAN, per, Trudy 17-y Astrometricheskoy Konferentsii SSSR (Pulkovo, 31 Maya-3 Tyunya 1966), Leningrad, 1967, pp 65-70.
JPRS 46531

Results of Use of Some Filters for Solar Meridian Observations, by 0. T. Markina, G. M. Petrov, 6 pp. RUSSIAN, per, Trudy 17-y Astrometricheskoy Konferentsii SSSR (Pulkovo, 31 Maya-3 Tyunya 1966), Leningrad, 1967, pp 195-199. JPRS 46531

Methods of Flexure Determination, by N. V. Nazarova, A. S. Kharin, 6 pp. RUSSIAN, per, Trudy 17-y Astrometricheskoy Konferentsii SSSR (Pulkovo, 31 Maya-3 Iyunya 1966), Leningrad, 1967, pp 202-205.

JPRS 46531

Preliminary Data on the Optics of an Astrometric Reflector, by Yu. S. Streletskiy, 5 pp. RUSSIAN, per, Trudy 17-y Astrometricheskoy Konferentsii SSSR. (Pulkovo, 31 Maya-3 Iyunya 1966), Leningrad, 1967, pp 208-211. JPRS 46531

Investigation of Magnetic Fields on the Sun, by B. A. Ioshpa, V. N. Obridko.
RUSSIAN, per, Vestnik Akademii Nauk SSSR,
Vol 4, 1968, pp 46-50. F910219968
Sci Tech Info Facility
ST-SP-10727

Computation of the Angle of Elevation of the Sun, by Tao Zu-wen CHINESE, per, Acta Meteorologica Sinica, Vol 33, No 3, Aug 1963, pp 402-407. *AFCRL

Correction of the Moon's osition According to Observations During the Annular Solar colipse of May 20, 1966 in Saronis, Greece, by Mermann Haupt, Maria Firmeis, 33 pp. GERAM, per, Annalen der Universitaets—Sternwarte, Wien, Vol 27, No 2, 1967, pp 67-70, 73-77, and 103-106. r500189968-V Dept of Navy MIC tr 2645

Atmospheric Sciences

Atmospheric Turbulence Affecting
Aircraft Flight, by N. Z. Pinus, 193 pp.
RUSSIAN, bk, Atmosfernaya Turbulentnost',
Vliyayushchaya Na Polet Samoletov, 1962,
pp 1-167
P100209168-V
FTD-HT-67-185

Rotation and Orientation of Cosmic Dust
Particles, by A. Z. Dolginov.
RUSSIAN, per, Doklady A.N. SSSR, Astronomya,
Vol 179, No 5, 1968, pp 1070-1073. F910172068-V
Sci Tech Info Facility
ST-ID-10718

On the Disruption of the Reciprocity Principle
During the Daytime Propagation of Super Long
Radiowaves Around the Earth, by P. E. Kresmushkin,
R. B. Baybulatov.
RUSSIAN, per, Doklady A.M. SSSR, Geofician,
Vol 171, No 2, 1966, pp 30-343.
Fylo171968
Sci Tech Info Facility
ST-RMP-AN-MET-10717

Scientific Atmospheric Sciences (Contd)

Experimental Study of the Dependence of Atmospheric Absorption at the 4.1 mm Wavelength on Altitude above Sea Level, by A. G. Kislyakov.

RUSSIAN, per, AN SSSR. Izvestiya. Fizika Atmosferyi Okeana, Vol 4, No 3, Mar 1968, pp 321-327.

*FTD-MT-24-339-68

Nave Propagation Through a Turbulent Atmosphere, by V. I. Tatarskiy.

RUSSIAN, bk, <u>Kasprostranchiye Voln V Turbulentnoy Atmosfere</u>, 1967, pp 138-540.

ACSI U-4598

ID 2204013168

Estimating the Wind Loads on High Structures by S. S. Zilitinskevich. RUSSIAN, per, <u>Meteorologiya i Gidrologiya</u>, No 6, 1967, pp 41-49. *FTD-MT-24-360-68

Meteorology and Hydrology, 178 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 5, May 1968, pp 3-126.
JPRS 46184

Hydrodynamic Scheme for Forecasting Oscillations of the Tropopause, by V. M. Kadyshnikov, 14 pp. RUSSIAN, per, Mirovoy Meteorologichesky Tsentr. Trudy. Voprosy Gidrodinamicheskogo Kratkosrochnogo Prognosa Pogody i Mesometeorologii, No 14, 1966, pp 59-70. P100243568-V FTD-MT-24-373-67

On the Question of Calculating the Vertical Wind Profile in the Boundary Layer of the Atmosphere, by L. A. Klyunikova, D. L. Laykhtman, 31 pp. RUSSIAN, per, Laningrad, Glavnava Geofizicheskaya Observatoriva, Trudy, No 167, 1965, pp 3-28. P100241588-V

Certain Results of Experimental Investigations of the Turbulence of the Atmosphere with Help of Radioscondes, by V. P. Belyayev, T. G. Beltadse, 58 pp. RUSSIAN, per, Trudy. Tsentral'naya Aerologicheskaya Observatoriya, No 54, 1964, pp 4-52. P100226268-V FTD-MT-24-207-67

Scientific Atmospheric Sciences (Contd)

Meteorological Conditions of Aircraft Landing, by N. K. Sachkov, 25 pp.
RUSSIAN, per, Trudy, Tsentral'naya Aerologicheskaya Observatoriya, No 68, 1965, pp 3-24.
F100243668-V
FTD-MT-24-322-67

Turbulence in the Lower Layer of the Atmosphere and in Low-Level Clouds, by V. Ye. Minervin.

RUSSIAN, per, Trudy, Tsentral'naya Aerologicheskaya Observatoriya, No 71, 1966, pp 76-91.

*FTD-MT-24-352-68

dulgarian Climatic Resources Described, by Dimitur Y. Dimitrov, 6 pp. BUIGARIAN, per, Geografiya, No 5, May 1968, pp 1-4.

JPRS 46302

Characteristic Parameters and Dynamical Equations of Atmospheric Motions, by Zeng Qing-zun CHINESE, per, Acta Meteorologica Sinica, Vol 33, No 4, Nov 1963, pp 472-483. *AFCRL

Equation of the Tendency of Atmospheric Stability, by S. Brandejs, 3 pp. CZECH, per, Metsorologicke Zpravy, No 5, 1965, p 137-P100226668-VFTD-HT-23-639-67

Calculation of the Large-Scale Horizontal Exchange Tensor, by O. Lucke, 12 pp. GERMAN, per, Zeitschrift Fur Meteorologie, Vol 17, 1965, pp 63-68.
Pl00227768-V
FTD-HT-67-441

Measures to Pight Blissards Discussed, Adopted, 6 pp. MONUOLIAN, mp. <u>Sotsialist Hodoo Ai Abuy</u>, Ulan Bator, 11 April 1968, p 1. JPRS 46426

Scientific Behavioral & Social Sciences

An Experimental Investigation of the Self-Adaptation Functions of the Human Operator, by G. A. Sergeyev, 20 pp.
RUSSIAN, bk, AN SSSR. Institut Automatiki I Telemekhaniki.

"Samoobuchayushchiyesya Automaticheskiye Sistemy", 1966, pp 222-232
P100204168-V
FTD-HT-67-337

Meditations About Reception, by V. Stoletov, 11 pp. RUSSIAN, np, <u>Izvestiya</u> P100204268-V FTD-HT-67-320

The Advantage of Closer Union Between Educational Institutions and Industry (Descriptive Title), by K. Kolesnikov, 6 pp. RUSSIAN, np, <u>Izvestiya</u>, p 4. Pl00219468 FTD-HT-67-319

Order for Management, by V. Davydchenkov, O. Latsis. 8 pp. RUSSIAN, np, Izvestiya, 13 Apr 1966. P100201968-V FTD-HT-67-410

Who Should Be A Scientist?, by D. Tatiyev, 6 pp.
RUSSIAN, np. <u>Izvestiva</u>, 6 Jul 1966, p 3.
P100202068
FTD-HI-6?-W09

Attributing Greater Responsibility for Hoolinganism, by N. Podromyy, N. Georgadze, 7 pp. RUSSIAN, np. <u>Izvestiva</u>, No 176, 28 Jul 1966, p 2. P100208569
FTD-NT-67-328

A Loarned Pan of the Feoulty, by S. Spivak, 8 pp.
RUSSIAN, np. <u>Izvestiva</u>, 29 Sept 1966, p 3.
P100203368
FTD-HT-67-322

Scientific Behavioral & Social Sciences (Contd)

Enthusiasa Plus Engouragement, by V. Dovgopol, 4 pp. RUSSIAN, np. <u>Izvestiva</u>, 11 Oct 1966, p.5. P100204368 FTD-HT-67-321

The Army, Politics and People, by A. Iskenderov, 9 pp. RUSSIAN, np, <u>Izvestiya</u>, 17 Jan 1967, r 2. P100200668 FTD-HT-67-308

Experiment in Application of Methods of Programmed Instruction, by S. L. Fradkin, 9 pp.

RUSSIAN, per, Moscow. Sredneye Spetsial'noye
Obrazovaniye, No 8, 1966, pp 39-44. P100242768_V

FTD-MT-24-363-67

Experience of Realizing an Inverted Type of Information Retrieval System Using a Digital Computer, by V. L. Greysukh, N. N. Mikheyeva, 15 pp.

RUSSIAN, per, Nauchno-Tekhnicheskaya Informatsiya.
No 3, 1965, pp 21-26. P100243768-V

FTD-MT-24-349-67

Assurance of Sufficient pl (x) Characteristics in Pattern Recognition, by B. M. Kurilov. RUSSIAN, rpt, Sb. Vychisl. Sistemy. Vpy. 22, Novosibirsk, "Nauka", 1966, pp 21-37.
#FTD-HT-23-880-580

Alphabet of Recognition Patterns, by V. N. Yelkina RUSSIAN, rpt, Sb. Vychisl. Sistemy. Vyp. 22, Novosibirsk, "Nauka, 1966, pp 59-76.
**TTD-HT-23-880-68C

Biological & Medical Sciences

Angioma of the Uterus, by M. G. Zholnerovskii, 5 pp.
RUSSIAN, per, Akush. Ginek, Moscow, Vol 41,
Sept-Oct 1965, pp 120-122.
Dept of Nevy/1968 1279

Scientific Biological & Medical Sciences (Contd)

Decree of the Supreme Soviet of Aserbaydshan SSR on the Present Status of and Measures to Improve Medical Service to the Population of the Republic, by M. Iskenderov, Z. Shukyurova, 8 pp. RUSSIAN, np. Bakinskiy Rabochiy, 21 May 1968, pp 1-2.
JFRS 46092

Report by the Minister of Public Health of Azerbaydzhan SSR on the Present Status of and Measures to Improve Medical Service to the Population of the Republic, by F. M. Vekilov, 11 pp RUSSIAN, np, Bakinskiy Rabochiy, 21 May 1968, pp 2-3.

JPRS 46092

State of Public Health in Azerbaydzhan SSSR, by K. G. Aliyev, 7 pp. RUSSIAN, np, Bakinskiy Rabochiy, 10 July 1968, p 3.
JPRS 46092

Nucleic Acids and Plant Evolution, by V. F. Vanyushin, A. N. Belozerskiy, 31 pp. RUSSIAN, bk, <u>Biologiya Avtotrofnykh</u> Mikroorganizmov, 1966, pp 7-25 Pl00200468-V FTD-HT-23-522-67

Photosynthetic Organisms and the Evolution of Photosynthesis, by Ye. N. Kondrat'yeva, 24 pp. RUSSIAN, bk, <u>Biologiya Avtotrofnykh Mikroorganismov</u>, 1966, pp 26-37 P100200468-V PTD-HT-23-522-67

A Microbiologist's View of Biochemical Evolution, by V. D. Pedorov, 23 pp. RUSSIAN, bk, <u>Biologiya Avtotrofnykh</u> Mikroorganissov, 1966, pp 38-50 F100203466-V FTD-HT-23-522-67 Photosynthesis and the Assimilation of Nitrate Nitrogen, by
A. A. Nichiporovich, G. A. Slobodskaya,
11 pp.
RUSSIAN, bk, Biologiya Avtotrofnykh
Mikroorganizmov, 1966, pp 51-56
P100200468-V
FTD-HT-23-522-67

Study of the Products of Chemosynthesis in Nitrosomonas Europaea Using C¹⁴, by A. K. Romanova, N. G. Doman, 20 pp.
RUSSIAN, bk, <u>Biologiya Avtotrofnykh Mikroorganizmov</u>, 1966, pp 57-67 P100200168-V
FTD-HT-23-522-67

Products of Photosynthetic C¹¹O₂
Assimilation by Synchronous
Chlorella Pyrenoidosa Culture at
Different Stages of Its Development,
by N. G. Doman, R. Ya. Shkol'nik, 22 pp.
RUSSIAN, bk, Biologiya Avtotrofnykh
Mikroorganizmov, 1966, pp 66-60
P100200468-V
FTD-HT-23-522-67

Study of Phosphorus Metabolism in Germinating Cotton Seeds, by M. N. Valikhanov, I. S. Kulayev, 24 pp.
RUSSIAN, bk, Biologiya Avtotrofnykh Mikroorganismov, 1966, pp 81-93 P100200468-V FTD-HT-23-522-67

Differential Photometric Study of Light-Induced Conversions of Pigments in Cells of Photosynthetic Bacteria, by M. V. Karapetyan, A. A. Krasnovskiy, 25 pp.
RUSSIAM, bk, Biologiya Avtotrofnykh Mikroorganismov, 1906, pp 94-107
P100200408-V
PTD-HT-23-522-67

Participation of Different Forms of Bacterioviridine and Bacteriochlorophyll in Bacterial Photosynthesis and Migration of Energy Between Forms of These Pigments, by Yu. Ye. Yerokhin, A. A. Krasnovskiy, 13 pp. RUSSIAN, bk, Biologiya Avtotrofnykh Mikroorganizmov, 1966, pp 108-114 P100200468-V FTD-HT-23-522-67

Effect of Cultural Conditions on Carotene Production by Dunaliella Salina, by I. L. Rabotnova, Ye. S. Mil'ko, 16 pp.
RUSSIAN, bk, Biologiya Avtotrofnykh Mikroorganizmov, 1966, pp 115-123
P100200468-V
FTD-HT-23-522-67

Physiological Properties of Bacterial Photosynthesis, by V. D. Fedorov, 13 pp. RUSSIAN, bk, Biologiya Avtotrofnykh Mikroorganismov, 1966, pp 124-130 P100200466-V FTD-HT-23-522-67

Accumulation of Organic Matter in Autotrophic Algae Cultures, by M. N. Pimenova, I. V. Maksimova, 22 pp. RUSSIAN, bk, Biologiya Avtotrofnykh Mikroorganismov, 1966, pp 131-141 P100200466-V PTD-HT-23-522-67

Physiological Properties of Chlorella in Relation to Prolonged Intensive Cultivation, by M. G. Vladimirova, M. I. Tauts, 23 pp.
RUSSIAN, bk, Biologiva Avtotroforth Mikroorganismov, 1966, pp 142-153
F100200468-V
FTD-HT-23-522-67

Scientific Biological & Nadical Sciences (Contd)

Physiological and Biochemical Aspects of Directed Production of Valuable Metabolites During Intensive Algae Cultivation, by G. L. Klyachko-Gurvich, V. Ye. Semenenko, 10 pp.
RUSSIAN, bk, Biologiya Avtotrofnykh Mikroorganismov, 1966, pp 154-159
P100200468-V
FTD-HT-23-522-67

Interrelations of Algae With Bacteria and Other Microorganisms in Mixed Cultures, by I. V. Maksimova, 48 pp. RUSSIAN, bk, Biologiya Avtotrofnykh Mikroorganizmov, 1965, pp 160-183 P100200468-V FTD-HT-23-522-67

Physiological and Ecological Relations and Autotrophic Photosynthetic Microorganisms, by M. M. Telitchenko, M. V. Gusev, llt pp.
RUSSIAN, bk, Biologiya Avtotrofnykh Mikroorganismov, 1966, pp 184-191 P100200468-V FTD-HT-23-522-67

The Oxidation of Hydrocarbons by Miroorganisms, by L. A. Mavrina, 21 pp. RUSSIAN, bk, Biologiya Avtotrofnyth Mikroorganismov, 1966, pp 192-202 P100200168-V FTD-HT-23-522-67

The Use of Radioactive Carbon Isotopes in Studying Photosynthesis and Chemosynthesis in Reservoirs, by S. I. Kunnetsov, ll. pp.
RUSSIAH, bk, Biologiya Avtotrofnyth
Mikroorganismov, 1966, pp 203-210
Pl0020046d-V
PTD-HT-23-522-67

Sulfide Oxidation by Thiobacillus Perrocxidans, by N. N. Lyalikova, 10 pp. NUSSIAN, bk, <u>Biologiya Avtotrofyrika</u> Mikroorganismov, 1966, pp 211-216 F100200466-V FTD-HT-23-522-67

Iron Bacteria on the Volcances of Runashir Island, by G. A. Zavarsin, 6 pp.
RUSSIAN, bk, Biologiya Avtotroffykh Mikroorganizmov, 1966, pp 217-220 P100200466-V FTD-HT-23-522-67

The Role of Autotrophic Bacteria in the Oxidation of Volcanogenic Sulfur, by M. V. Ivanov, G. I. Karavayko, 14 pp. RUSSIAN, bk, Biologiya Avtotrofnykh Mikroorganizmov, 1966, pp 221-228 F100200468-V FTD-HT-23-522-67

Biology and Control of Dreissena by B. K. Shtegman, 145 pp.
RISSIAN, bk, Biologiya Dreisseny i Bor'ba S
Nei, 1964.
CFETI TT 67-51396

Man and Technology, by V. P. Zinchenko, G. L. Smolyan, 72 pp. RUSSIAN, bk, <u>Chelovek i Tekhnika (Sistemy Upravloniya i Inshenernaya Paikhologiya)</u>. 1965, pp 3-48. Pl0024-5168 FTD-MT-24-328-67

Behavior of Living Organisms in Radiation Fields, by N. G. Darenskaya, G. M. Pravdina, 16 pp. RUSSIAN, bk, <u>Doklady</u>, <u>USSR</u>, <u>Go mudarstvennyy</u> Komitet po Isppl'sovaniyu Atomoy Energii, 1965, pp 1-19. F10024468-V FTD_VT-24-254-67

Pharmacognosia, by M. D. Empinskaya, V. N. Karpovich, 510 pp. HUSSIAN, bk, <u>Farmakognosiva</u>, 1963, pp 1-367 P100210560-V FTD-HT-23-519-67

Scientific Diologica! & Medical Sciences (Could)

Michanical Bases of the Regulation of the Speed of Growth of Micro-organisms, by N. D. Iyerusalimskiy, lip pp RUSSIAN, per, Andisk Isvestiya.

Seriya Biologioheskaya, No 3, 1967, pp 339-350
Pl00163568-V
PTD-MT-2h-2h-2h-67

The Dynamics of Pulse Waves of Intraoranial Pressure During Transverse Overloads Up to 40 g, by Yu. Ye. Moskalenko, O. G. Gazenko, 10 pp RUSSIAN, per, An SSSR. Izvestiya. Seriya Biologicheskaya, No 3, 1967, pp 396-403 P100163568-V FTD-MT-24-244-67

Problems in Heart Transplantation, by B. V. Petrovskiy, 5 pp.
RUSSIAN, per, <u>Kardiologiya</u>, Moscow, No 6, 1968, pp 3-6.
JPRS 46536

Massive Hydrothorax As A Complication in Hepatic Lesions, by M. S. Shneider, 8 pp. RUSSIAN, per, <u>Kasan. Ned. Zhur</u>, Vol 44, Sept-Oct 1963, pp 66-68. Dept of Mavy/NeS 1272

On the Problem of Hemangioendothelicms of the Stomach, by N. S. Torgushina, 6 pp. RHSSIAN, per, Khir, Noscov, Vol 40, Aug 1964, pp 91-93.
Dept of Navy/MS 1278

Development of Emergency Surgical Care in the USSR, by M. I. Kuzin, 10 pp. RUSSIAN, per, Khirurgiya, Hoscow, No 6, 1968, pp 4-11.

JPRS 46537

Deterministic Hodals of Epidemics for Territories with a Transportation Hetwork, by U. V. Barcyan, L. A. Rwachev, 16 pp.
RUBSIAH, per, Characting, No 3, 1967, pp 67-74.
JPNS 46399

Prospectus — Kiev Scientific Research Institute of Experimental and Clinical Occology, by R. E. Kavetskiy.
RUSSIAU, bk, <u>Kivevskiy Baucher-Insledovatel'</u> skiy Institut Experimental'noy I Klinicheskoy Onkologii, 1967, pp 1-46.
ACSI J-5209
ID 2204015268

Urgent Problems of Pharmacology and Pharmacotherapy, by V. Kh. Vasilenko, M. A. Zhukovskiy, 10 pp. RUSSIAN, per, <u>Klinicheskaya Meditsina</u>, Moscow, No 7, 1968, pp 3-8.
JPRS 46533

Medical Science in the Service of Soviet Public Health, by K. V. Bunin, 15 pp. RUSSIAN, per, <u>Klinicheskaya Meditsina</u>, Moscow, No 7, 1968, pp 8-16. JPRS 46533

Space Biology and Medicine RUSSIAN, per, Kosmicheskaya Biologiya i Meditsina, Vol 2, No 3, 1968, pp 1-94.

JPRS 46,456

Space Cardiology, by V. V. Parin.
RUSSIAN, bk, Kosmicheskaya Kardiologiya, 1967,
pp 1-206.
**TTD-MT-24-337-68

Cosmic Research in Genetics, by G. P. Parfenov RUSSIAN, per, Kosmicheskie Issledovaniia, Vol V, No 2, 1967, pp 140-155. *Dept of Navy/N48 1293

Space clant-Growing, by V. r. Dadykin, 59 pp. RUSSIAN, per, Koszicheskoye Rasteniyavodstvo, ktology Series No 1, 1968, 64 pp. Jims 46306

Short Handbook on Space Biology and Medicine, RUSSIAN, bk, Kratkiy Sprayochnik po Kosmiches-koy Biologii i Meditaine, 1967, pp 1-368.

The Treatment of Patients With Hypertenia by Electronarcomie, by G. V. Sergeyer, 130 pp. RUSSIAN, per, Lesbanire Elektronnon Bol'nyth Cipertonicheology Rolean'ya Fed Londrolem Iseledovaniya Ith Vyshey Marvney Deyatel'nosti, 1905, pp 73-203. F100241308-V FTD-HT-23-851-67

Device for the Calculation and Modeling of Neurons (Nerve Cells), by
V. A. Ganzen, R. M. Granovskaya, 8 pp.
RUSSIAN, per, Leningrad. Universitet.
Kafedra Vychislitel'noy Matematiki I
Vychislitel'nyy Tsentr. Vychislitel'
naya Tekhnika I Voprosy Programmirovaniya
No 3, 1964, pp 84-90.
P100230368-V
FTD-HT-23-540-67

Bioelectric Control, by
I. Akulinichev, 5 pp.
RUSSIAN, np. Meditsinskava Gazeta
(Navy); pp 1
P100184668
FTD-HT-67-282

Building Lag Hurts Health Services in USSR, 6 pp.
RUSSIAN, np, Meditsinskaya Gazeta, 9 May 1968, p 2.
JPRS 45694

Material on the World-Mide Distribution of Scrub Typhus, by I. V. Taresovich. RUSSIAM, bk, <u>Moditainskaya Geografia</u>, 1966, 1968, pp 237-272. ACSI J-5006 ID 2204017769

Fifty Years of Soviet Public Health: Organization of Control of Halaria and Helminthiasis, 5 pp. RUSSIAN, per, Heditainahaya Fayanitologiya i Hayanitainaya Rolemi, Vol 46, No 3, 1968, pp 259-262.

JPRS 46409

Biological & Medical Sciences (Contd)

in the lone of construction of Sayano-Shushanshing (Ed., by I. A. inserteday, 7 pp. dydroelectric fower Station, by E. I. Fastovskaya, RhSIAE, per, Problem Constitution in Fernilla Aroni, is 7, July 1950, pp 3-7. idbolai, per, Heditsinshaya raregitalogiya i ate on aphoestology of Pica-dorms amoscialitis idio IA)., per, jediteinekaya rarasitoloriya i jarasitarnyye Bolegni, Vol 46, No 3, 1968, pp 263-270. Jris 46409

Some of the Distinctive Features of Tick-Borne Encephalitis, by Yu. H. Tsirkin, 7 pp. RUSSIAN, per, hedistinskaya Parasitologiya 1 Parasitarnyye Bolegni, Vol 46, No 3, 1968, JPRS 46409

experience in Estimating Intensity of Infection with Tick-Borne Encephalitis, by D. A. L'vov, L. N. Bol'shev, 8 pp. RUSSIAN, per, Meditsinskaya Parasitologiya i Farasitarnyye Bolezni, Vol 46, No 3, 1968, pp 274=279. JPRS 46409

Investigation of a Matural Immune Group of Goats of Different Ages in a Focus of Tick-Borne encephalitis, by E. I. horenberg, A. A. Fchelkins, 6 pp. RUSSIAM, per, heditsinskava Paresitologiva i aresitamyve molesni, vol 46, mo 3, 1968, pp 279-282. JrRS 46409

Organisation and Simulation of an Acoustic Analyser, by V. A. Dolyatovskiy, 12 pp. RISSIAN, per, ledelirovaniye v Biologii i leditaine, Vol 2, 1966, pp 72-54.
JPRS 46275

Notes on Space Physiology, by V. V. Parin. NUSSIAN, bk, Ocherki po Kosmicheskoy Pisiologii, 1967, pp 1-135. FTD-KT-24-338-68

Endotheliora of the Thyroid Gland, by I. L. Curin, 5 pp.
RISSIAN, per, Probl. Endoka. Gormonoter,
Vol 11, Jul-Aug 1965, pp 57-59.
Dept of Navy/N48 1277

Current State of the Problem of Plasma Substitutes from Gelatin, by T. V. Znamenskaya, 22 pp. Ribsilaii, per, groblemy Gematologii ferelivaniya arovi, June 1965, pp 53-60.

Jr. 16571

maic Results of and Prespects for the Jevelsp-

Autotrophic Organisms as Components of Closed Ecological Systems, by A. A. Nichiporovich, 12 pp. RUSSIAN, bk, Problemy sozdaniya zamkmutykh ekologicheskikh sistem, 1967, pp 5-17.
JPRS 45837

Modern Trends in the Development of Space and Submarine Human Life-Support Systems, by G. I. Voronin, 20 pp. RUSSIAN, bk, Problemy sozdaniya zamkmutykh ekologicheskikh sistem, 1967, pp 22-44. JPRS 45837

The Biosphere and Closed Biological Systems, by G. M. Lisovskiy, 7 pp.
RUSSIAN, bk, Problemy sozdaniya zamknutykh
ekolonicheskikh sistem, 1967, pp 44-51.
JPRS 45837

Study of the Possibility of Growing Head Cabbage under Low Light Intensities, by I. T. Nilovakaya, 5 pp.
RUSBIAN, bk, Problemy sozdaniya zamkmutykh
ekologicheskikh sistem, 1967, pp 55-60.
JPRS 45837

Preliminary Study of Chlorella Suitability for Feed in Experimentation on White Rats, by Ye. I. Kalent'yeva, 5 pp.
RUSSIAN, bk, Problemy sozdaniya zamkumitykh
ekologicheskikh sistem, 1967, pp 67-72.
JPRS 45837

Certain Characteristics of a Population of Chlorella as a Hember of a Closed Reclogical System, by G. I. Nelsehko, 6 pp. RUSSIAN, bk, <u>Problemy sosdaniva zemknutykh</u> ekologicheskikh sistem, 1907, pp 73-78. JPRS 45837

Green and Development of a Dalture of Onl only Pyremolius: Fringen. 20-1. Depending on Fort of Kitrogen Astrinent, by S. 7. Digerrys, 11 pp. HUSSIAM, bk, Problemy suclanity zasknutykh ekologicheskikh sisten, 1967, pp 78-91. JPRS 45937

Continuous Cultivation of Chlorella with Repeated Utilization of the Medium, by R. I. Kuz'mina, 6 pp. RUSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 91-96. JPRS 45837

Microflora of an Algae/Bacteria Community Processing Human Excreta, by M. S. Rerberg, 6 pp. RUSSIAN, bk, <u>Problemy sozdaniya zamknutykh</u> ekologicheskikh sistem, 1967, pp 96-101. JPRS 45837

An Experiment in Gultivating Chlorella on Biologically Mineralized Product of Human Vital Activity, by Ye. K. Lebedeva, 6 pp. RUSSIAN, bk, Problemy sozdaniya zamknutyki ekologicheskikh sistem, 1967, pp 102-108.

JPRS 45837

Regeneration of Air by Higher Plants, by N. T. Nilovskaya, 6 pp.
RUSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 108-114.
JPRE 45837

Investigating Carbon Dioxide Excretion in Man, by V. I. Savkin, 5 pp.
RUSSIAN, bk, Problem sondaniya namkmutykh ekologicheskikh sistem, 1967, pp 114-118.
JPRS 45337

A Study of Water Regeneration by Higher Plants when Grown in a Closed Volume, by K. M. Bokovaya, 5 pp. RUSSIAN, bk, Problemy soudenive mankentykh ekologicheskikh sistem, 1967, pp 119-123.

JPRE 45837

Scientific Biological & Medical Sciences (Contd)

Regeneration of Water by Lyoph. 'Iring the Products of final Activity by Nan and Plants, by Yu. S. Koloskova, (pp. RESSIAN, bk, Problemy sordeniya zaukmutykh ekologicheskikh sister, 1767, pp 125-133.

JPES 45837

Creating a Heat-Treating Unit for Wastes in a Life-Support System Based on Material Cycling, by B. A. Balin, 6 pp. RUSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 144-150.
JPRS 45837

Mineralization of Products of Human and Plant Vital Activity by the Wet Combustion Method, by Yu. A. Drigo, 6 pp.
RUSSIAN, bk, <u>Problemy sozdaniya zamknutykh</u> ekologicheskikh sistem, 1967, pp 150-156.
JPRS 45837

Physicochemical Methods of Obtaining Armonia Liquor and Mitric Acid from Human Vital-Activity Wastes, by M. I. Belyakova, 5 pp. RUSSIAN, bk, <u>Problemy sozdaniya zamknutykh</u> ekologicheskikh sistem, 1967, pp 157-162. JPRS 45837

Noisture-Containing Human Wastes As a Product from Which to Derive Basic Nutrient Elements for Autotrophs, by G. I. Kozyrevskaya, 5 pp. RUSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 166-170. JPRS 45837

Results of Biological Mineralization of Human Vital-Activity Products by Aeration with Active Sludge, by V. F. Varlamov, 5 pp. RUSSIAN, bk, Problemy soudaniya sankmutykh ekologicheskikh sistem, 1907, pp 171-175.
JPRS 45837

Titrimetric Determination of Sulfur and Phosphorus in the Biological Media of Life Support Systems, by Ye. I. Pokrovskaya, 5 pp. RUSSIAH, bk, Problemy sosdaniya samkmutyth ekologicheskikh sistem, 1967, pp 179-183.

JPRS 45837

Flame-Spectrophotometry in Protracted Monitoring of Alkaline-Metal ion Concentration in Nutrient Solutions when Cultivating Higher Plants, by V. I. Rozhdestvenskiy, 5 pp. RISSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 183-187.

JPRS 45837

Electron-Microscope and Chemical Study of Ash Residues in Products of Vital Activity in Man and Plants, by A. V. Bromberg, 5 pp. RUSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 188-192 JPRS 45837

Problems of Nitrogen Fixation under Mild Conditions, by M. Ye. Vol. pin, 5 pp. RUSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 193-197.

JPRS 45837

A Physicochemical Method of Synthesizing Carbohydrates from Human Vital-Activity Products in Restricted Closed Spaces, by Yu. Ye. Sinyak, 5 pp. RUSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 197-202.

JPRS 45837

Biophysical Aspects of the Effect of Ionizing Radiation on Coenoses, by R. M. Aleksakhin, 5 pp.
RUSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 203-208.
JPRS 45837

Probability of Mutant Cell Preservation in Continuous Culture of Microorganisms, by V. A. Darg, 9 pp.
RNSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 208-216.
JPRS 45837

On the Negentropic Tendency in Evolution of Natural and Anthropogenic Biocoenoses, by 8. A. Baranov, 6 pp.
RUSSIAN, bk, Problemy sozdaniya zar nutykh ekologicheskikh sistem, 1967, pp 217-221.
JPRS 45837

Scientific Biological & Medical Sciences (Contd)

Model of Nitrogen Cycle in an Aquatic Ecosystem without Bottom Deposits, by Yu. M. Lebedev, 5 pp. RUSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 225-229. JPRS 45837

A Mathematical Model of Population Development, by Yu. V. Chaykovskiy, 9 pp. RUSSIAN, bk, <u>Problemy sozdaniya zamknutykh</u> <u>ekologicheskikh sistem</u>, 1967, pp 229-236. JPRS 45837

Resistance Mechanisms of the Siberian Larch to Insect Pests, by A. S. Isayev, 8 pp. RUSSIAN, bk, Problemy sozdaniya zamknutykh ekologicheskikh sistem, 1967, pp 244-252.

JPRS 45837

Manufacture of Synthetic Fatty Acids by B. S. Alayev.
RUSSIAN, bk, <u>Prcizvodstvo Sinteticheskikh</u>
Zhirnykh Kislot, 1960, 123 pp.
#FTD-HT-23-834-68C

Microbiological Processes in the Formation of Sulfur Deposits, by M. V. Ivanov, 298 pp. RUSSIAN, bk, Rol' Mikrobiologicheskikh Protsessov v Genezise Mestorozhdenii Samorodnoi Sery, 1964.

CFSTI TT 67-51274

Dependence of Fish Catch on Fishing Intersity, by V. A. Fodorov, 6 pp.
RUSSIAN, per, Rybnoye Khosyaystvo, No 8, 1967, pp 52-54.
JPRS 46,342

Dietetic Canned Kelp, by G. S. Korobkina, E. S. Baulina.
RUSSIAN, per, Rybnos Khoz, Vol 44, No ?, 1969, pp 53-54.
*Dept of Interior
Pureau of Commercial Fisheries
Branch of Forcign Fisheries

Dry-Curing Fish in Artificial Conditions, by I. A. Shishkanova. RUSSTAH, per, <u>Rybnoe Khos</u>, Vol 44, No 7, 1903, pr 10-11. *Dept of Interior Bureau of Cormercial Fisheries Branch of Foreign Fisheries

Scientific Biological & Medical Sciences (Contd)

Care, by M. V. Katsman, 5 pp. RUSSIAN, per, Sovetskoye Zdravookhraneniye, No 5, 1968, pp 9-11. JPRS 46023

Staffing Rural Rayon Theraprutic-Prophylactic Institutions, V. V. Golovteyev, A. L. Margulis, 6 pp. RUSSIAN, per, Sovetskoye Zdravookhraneniye, No 5, 1968, pp 12-15. JPRS 46023

Soviet Public Health, 52 pp. MUSSIAN, per, <u>Sovetskoye zdravookhraneniye</u>, No 6, 1968, pp 3-95. JPRS 46381

Experience with Studies on Certain Tissue Reactions in Paradontium and Pulp Dental Autografts on Dogs, by V. S. Lychak RUSSIAN, per, Stomatologiia, Vol 3, 1968, pp 38-41. *Dept of Navy/NMS 1296

Personal Protection for the Respiratory Organs, by I. N. Nikiforov, S. L. Kaminskiy, 10 pp. RUSSIAN, per, Sudostrovenive, No 5, May 1968, pp 47-51. JPRS 46202

The Brain and What It Thinks of Itself, by A. Mitskevich, 9 pp. RUSSIAN, per, Tekhnika-Holodeshi, No 5, 1968, pp 7-9. JPRS 45047

Fifty Years' Progress and Future Tasks of Soviet Rikis IAM, per. Terepevtioheskiy Arkhiv, June 1968, pp 12-20. JHS 46368

Bioluminescence as a Hydrooptical and Biological Factor in the Sea, by I. Gitel'son, O. G. Baklanov, 12 pp. RUSSIAN, per, Trudy Moskovskogo
Obshohestva Ispytateley Prirody,
Biolyminetsiya, Moscow, Vol 21, 1965,
pp 147-155.
JPRS 46508

Problems Entailed in Providing All-Round Dispensary Contribution to the Characteristics of Tumors of Connective Tissue and Muscular Origin, Caused by Intramuscular Injection of 20 Methyl Cholanthrene. I. Cytological Characteristics of Tumors in Mice and Rats, by V. M. Bresler RUSSIAN, per, Tsitologiia, Vol 4, No 3, 1962, pp 264-275. HEW NIH 6-1-68

> Radioautographic Study of the Life Cycle c. Cells in Solid Tumors. Phase G-O in Cells of Hepatoma and Tumors of the Mammary Gland, by O. S. Frankfurt -RUSSIAN, per, Tsitologiia, Vol 7, No 3, 1965, pp 386-393. HEW NIH 6-20-68

> Vestnik of the USSR Academy of Medical Sciences, 141 rp. RUSSIAN, per, Vestnik Akademii Meditsinskikh Nauk SSSR, Vol 23, No 5, May 1968, pp 1-95. JPRS 46174

> Vestnik of the USSR Academy of Medical Sciences, 154 pp. RUSSIAN, per, Vestnik Akademii Meditsinskikh Nauk SSSR, Vol 23, No 6, June 1968, pp 1-96. JPRS 46222

Vestnik of the USSR Academy of Medical Sciences RUSSIAN, per, Vestnik Akademii Meditsin(xikh Nauk SSSR, Vol 23, No 7, July 1968, pp 1-95. JPRS 46,411

Hemangioendothelioma of the Lung, by V. P. Elozo RUSSIAN, per, Vestn. Khir., Grekov, Vol 9, Sept 1963, p 103. *Dept of Navy/NAS 1276

New Genetic Lines of the Yeast Saccharomyces Cerevisiae, by S. G. Inge-Vechtonov, 15 pp. RUSSIAN, per, Vestnik Leningrad Univ. Seriya Biol., No 21, 1963, pp 117-125.
AEC-ORNL-Tr-1962 P911255368-V

Modern Neuropsychology Looks at Reflection, by A. R. Luriya, 15 pp.
RUSSIAN, por, Vestnik Noskovskogo Universiteta,
Soriya 8, Filosofiya, Nay-Jun 1968, pp 25-37.
JPRS 46,344

Changes in the Excitability of a Motor Reflex During Summation of the Effect of Small Doses of X-Ray, by Yu. K. Kudritskiy, 7 pp. RJSSIAN, per, Vestnik Rentogenologii i Radiologii, No 6, 1955, pp 15-21. F100217268-V FTD-HT-23-1105-67

Scientific Research on the Disease of Swine at the All-Union Institute for Experimental Veterinary Science, by P. I. Pritulin. RUSSIAN, per, Veterinariya, No 1, 1968, pp 13-15.

ACSI J-5117
FSTC HT-23-2h2-68

Attention - Weightlessness, by A. V. Yegorov, G. I. Pavlov, 80 pp.

RUSSIAN, bk, <u>Vnimaniye - Nevesomost'!</u>, 1965, pp 1-94.

P100221068-V

FTD-NT-66-157

Reproduction and Development of Silver Hake, by V. I. Sauskan, V. P. Serepryakov, 31 pp. RUSSIAN, per, <u>Voprosy Ekhtiologii</u>, Vol 8, No 3 (50) 1963, pp 500-521.

JPRS 46,342

Isolation of the Vesicular Stomatitis Virus from a Sick Person, by S. Ia. Gaidamovich HUSSIAN, per, Vop Virus, Vol 11, 1966, pp 77-80.
HEW NIH
6-2-68

A Laboratory Apparatus Complex for Suspension Oultivation of Cells, by L. N. Mishin. RUSSIAN, per, <u>Vepromy Virusologii</u>, No 1, 1968, pp 113-120. ACSI J-5030 FSTC HT-23-71-68

Chromosome Injuries in Some Virus Infections, by I. F. Barinskiy, I. V. Dement'yev, 20 pp. RUSSIAN, per, <u>Vorrosy Virusologii</u>, No 2, 1968, pp 131-141.
JPRS 46,351

Comparison of the Cytopathic Activity of the Respiratory Syncytial (RS) Virus in Different Tissue Cultures, by A. S. Larionov, A. I. Solov'yeva, 6 pp.
RUSSIAN, rer, <u>Vorroay Virusologii</u>, No 2, 1968, pp 164-166.
JPRS 46,351

Scientific Biological & Medical Sciences (Contd)

Immunomorphological and Serological Indices in Immunization Against Ornithosis with Liquid Vaccine Aeroscls, by I. I. Terskikh, 3. S. Gusman, 11 pp. RUSSIAN, per, Voprosy Virusologii, No 2, 1968, pp 192-199.

JPRS 46,351

Treatment of Irradiated Animals Indicated, by V. II'yin, 6 pp.
RUSSIAN, per, <u>Voyennyye Znaniya</u>, No 7, 1968, pp 24-25.
JPRS 46378

The Physicc-Chemical Aspects of Isomorphism, by V. A. Karkinskiy, A. A. Yaroshevskin. RUSSIAN, bk, Zapiski Vsesoyuznogo Mineralogicheskogo Obshchestva, Second Series, Part 96, Mc 5, 1967, pp 532-546. ACSI J-5051 FSTC-HT-23-192-68

State of Psychoneurological Care in the RSFSR, by A. V. Sergeyev, 7 pp. RUSSIAN, per, Zdravookhraneniye Rossiyskov Federatsii, Vol 12, No 6, June 1968, pp 3-8. JPRS 46257

Antiepidemic and Prophylactic Measures in the USSR During the Past Fifty Years, by I. I. Rogozin, Z. I. Dubnitskaya, 7 pp. RUSSIAN, per, Zhurnel Mikrobiologii, Immunobiologii i Enddemiologii, No 1, 1967, pp 6-11.

JPRS 46366

Bulgaria Conducts Study of Reasons for Morbidity, by Z. Bogdanov, 14 pp. BULGARIAN, per, <u>Kniglena i Zdraveopasyane</u>. No 2, Mar/Apr 1968, pp 121-129. JPRS 46038

In Defense of Our Fish Resources, by C. Viebchev.
BUIGARIAN, per, <u>Priroda</u>, No 5, 1967, pp 85-91.
AGSI J-4364
FSTC HT-23-107-68

Pathological Anatomy in Medical Jurisproduce, by Ch'en In'Kao, Hen Ying-han CHIMESE, bk, Fayl Bingli Jieponsee, Chap I, pp 1-3; Chap 3, Fart 1, p 14; Chap 11, 12, 13, pp 135-172, 1956. aaCSI J-5511 ID 2204017668

Childbirth Risk of a Multipara, by V. Lane CZECH, per, Cas Lek Cesk, Vol 88, 1949, pp 1455-1459.
HEW NIH
6-16-68

Effect of Intraperitoneal Administration of Neomycin and Neolymphin on Respiration, by P Markalous CZECH, per, Cas Lek Cesk, Vol 101, No 7, 1962, pp 198-204.

HEW NIH 6-24-68

The Factors Influencing the Reaction of the Adrenal Cortex to Cold, by V. Jonec, 18 pp. CZECH, per, Lekarske Listy, Vol 6, No 1, pp 377-387. Pl00228168-V FTD-HT-23-562-67

Medical Protection Against Atomic Weapons, by Miroslav Arient, Milos Pavlicek.

CZECH, bk, Repetitorium Vojenskeho Lekare, 1965, pp 216-274.

ACSI J-5155
FSTC-HT-23-219-68

The Effect of Radiation Sickness on the Biochemical Post-Mortem Changes in Tissues, by J. Vranovska, V. Kalousova, 10 pp. CZECH, per, Vojenske Zdravotnicke Listy, Vol 35, No 2, 1966, pp 62-65. F100229668-V FTD-HT-67-429

Cat Scratch Fever, 5 pp.
DUTCH, per, Bilg. T. Geneeh, Vol 21, 15 Oct
1965, pp 975-978.
Dept of Navy/NMS 1263

Fight Against Sleeping Sickness with Preventive Prophylaxis in the Maniema District during the Years 1936-1950, by H. Classens BUTCH, per, 300. Blehe Med. Trop, Vol 32, 1952, pp 121-140.

**Dept of Navy/MMS 1297

Scientific Biological & Medical Sciences (Contd)

Operational Aspects of Deep Diving, by X. R. Fructus, 20 pp. FRENCH, monograph, May 1967 Dept of Navy/NMS 1270

Studies on the Rhythm of Urinary Elimination of Chlorpromazine in Man. Biological and Statistical Considerations, by C. Chatagnon FRENCH, per, Ann Biol Clin, Vol 20, 1962, pp 75-84.

HEW NIH
6-4-68

Inapparent Viral Infection of Hamster Cells Detected by Electron Microscopy, by W. Bernhard FRENCH, per, Ann Inst Pasteur, Vol 107, No 4, 1964, pp 447-452.

HEW NIH
6-18-68

Some New Indications for Fluorescein Angiography, by P. Amalric FRENCH, per, Ann Oculist, Vol 200, No 2, 1967, pp 129-162.

HEN NIH 6-15-68

On the Experimental Intersexuality of Embryonic Gonads of the Mallard Duck, Grown in Vitro, by E. Wolff FRENCH, per, Arch Anat Micr Morph Exp, Vol 41, No 2, 1952, pp 184-207.

HEW NIH 6-5-68

Value of Psychosomatic Studies in Some Cases of Severe Total Alopecia, by M. Degossely, 13 pp. FRENCH, per, Arch. Belg. Derm Syph, Vol 21, 1965, pp 257-266.
Dept of Navy/NMS 1284

Perfusion of Isolated Dog Kidneys with Heparinated Blood, by A. Hiset, 2 pp. FRENCH, per, Archives Internat. Physiolet Blochem, Vol 70, 1967, pp 439-441. *Dept of Navy/NMB 1261

Comparative Findings with the Hoyt-Morrison Test and With Other Tests for Changes in Serum: Value of the Test in Viral Hepatitis, by R. Marano FRENCH, per, Arch Pat Clin Ned, Vol 40, 1964, pp 384-393.

NIH-HEW 7-14-68

Production of Tumors by Means of Carcinogenic Chemical Substances in the Hamster. II. Study of Methylcholanthrene, Benzpyrene, and Dimethylbenzanthracene Injected in Various Doses, by M. R. Riviere FRENCH, per, Bull Cancer, Vol 50, No 2, 1963, pp 275-289.

HEW NIH 6-7-68

Regulation of Posture with Statokinesimeter, by A. Soulairac, 9 pp. FRENCH, per, Cahiers du College de Med., Vol 7, No 10, 1960, pp 669-672. Dept of Navy/NMS 1275

Isotopic Effect of Tritium in the Form of Tritiated Thymidine on ATP Activity; Purified Thymidine-5'-Phosphotransferase, by L. Baugnet-Mahieu FRENCH, per, Chim Biol, Vol 47, No 12, 1965, pp 2321-2322. NIH-HEW 7-5-68

Experimental Investigations on the Antineoplastic Action of Fleming's Lysozyme. Lysozyme Action on Sarcoma 180, by S. Curro FRENCH, per, <u>Chir Pat Sper</u>, Vol 12, No 11, 1964, pp 1022-1032. HEW NIH 6-21-68

Nycoplasma Arthritidis Polyarthritis of the Rat. I. Experimental Reproduction, by F. Delbarre FRENCH, per, C. R. Boc Biol, Vol 158, 1964, pp 1006-1008.
NIH-HEW 7-8-68

Scientific Biological & Medical Sciences (Contd)

Mycoplasma Arthritidis Polyarthritis of the Rat. II. Role of Different Factors, by F. Delbarre FRENCH, per, <u>C R Soc Biol</u>, Vol 158, 1964, pp 1043-1046. NIH-IEW 7-16-68

Experimental Mycoplasma Arthritidis Folyarthritis of the Rat. IV. Immunologic Phenomena (Animals Subjected to Active Immunization), by A. Kahan FRENCH, per, C R Soc Biol, Vol 158, 1964, pp 1320-1322.

NIH-HEW 7-11-68

Catecholamine Content of the Adrenals of Male Long Evans Rats in the Course of Adaptation to Different Temperatures, by L. Chevillard FRENCH, per, <u>C R Soc Biol</u>, Vol 161, No 2, 1967, pp 279-283.

HEW NIH
6-17-68

Anti-Lymphocytic Serum, Bone Marrow and Immunological Tolerance in Young Dogs, by H. Otte, 6 pp.
FRENCH, per, Comptes rendus Soc. de Biol, Vol 161, No 4, 29 Apr 1967, pp 959-962.
Dept of Navy/NMS 1254

Discussion on Bone Pseudo-Tumors in the Hemophiliacs, by Docteur Queneau, FRENCH, per, Hemostase, Vol 99, 1965, p 101. *Dept of Navy/NMS 1288

Studies on Formation of Urea in Animal Body by H. Krebs FRENCH, per, Hoppe Seyler Z Physiol Chem, Vol 210, 1932, pp 33-66. HEM NIH 6-11-68

Analytical and Biological Studies on the N-Acetyl-L-Aspartate Content of the Brain, by F. Bruns
FRENCH, per, Hoppe Sevier Z Physiol Chem, Vol 348, 1967, pp 512-518.
HIM NIR
6-9-68

Metabolic Processes in the Brain at Normal and Reduced Temperatures and Under Anoxic and Ischemic Conditions, by W. Thorn FRENCH, per, J Neurochem, Vol 2, 1958, pp 150-165.

HEW NIH
6-6-68

Experimental Attempts at Valvular Vein Grafts with Suspended Anastomoses According to the Kunlin's Technique, by R. Devin, 9 pp. FRENCH, per, Marseille Chir, Vol 16, No 3, May-June 1964, pp 179-186.
Dept of Navy/NMS 1266

On the Leukocytogenic Action of Fleming's Lysozyme in Subjects Treated with Chemio-antiblastics, by E. Foti.
FRENCH, per, Minerva Chir, Vol 21, 1966, pp 693-695.
NIH-HEW
7-3-68

Rare Diseases of Os Calcis, by G. Giambelli, 3 pp. FRENCH, per, Presse Med., Vol 72, No 25, 1964, pp 3001-3004.
Dept of Navy/NMS 1287

Methenolone in the Treatment of Bone-Marrow Insufficiencies, by R. Zittoun. FRENCH, per, Presse Med, Vol 76, No 10, 1968, pp 445-448.

NIH-HEW 7-4-68

Action of Procarbazine in the Malignant Lymphomas, by M. Fiorentino. FRENCH, per, Presse Med, Vol 76, No 21, 1968, p 992.
NIH-HEW 7-7-68

A Routine Technique for in Vitro Culture of Nerve Cells, by Gille Lamoureux, 5 pp. FRENCH, per, Rev. Can. Biol, Vol 23, No 3, 1964, pp 261-264. Dept of Navy/NMS 1285

Scientific Biological & Medical Sciences (Contd)

Frequency and Significance of Positive Waaler-Rose Reactions and Latex Tests in Liver Diseases, by J. Badin FRENCH, per, Rev Int Hepat, Vol 13, No 8, 1963, pp 655-667.

NIH-HEW 7-19-68

False Incompatibilities in Interactions with Bromelin Due to Cold Agglutinins, by G. Russo FRENCH, per, Riv Emoter Immunoemat, Vol 10, 1963, pp 251-258.

NIH-HEW 7-10-68

Effects of Pharmacodynamic Substances of Clinical Interest on the Electroencephalogram, by G. Verdeaux FRENCH, per, Rev Neurol, Vol 91, No 6, 1954, pp 405-427.

HEM NIH
6-14-68

Intradermal Vaccination Against Typhoid Fever Studied, by Nguyen Trung Thanh, 9 pp. FRENCH, per, La Sante Publique, Apr 1967, pp 365-371.

JPRS 45717

Isoamylases in the Organs and Body Fluids of Rats and Rat Fetuses. Changes after Total Body Irradiation, by T. Goetze GREMAN, per, Acta Biol Med German, Vol 19, 1967, pp 519-528, HEW NIK 6-10-68

Thymine-2-Deoxypentopyranosides As Inhibitors of Uridine-Deoxyuridine Phosphorylase. Configuration-Effect Relations, by G. Etzold. GERVAN, per, <u>Acta Biol Med German</u>, Vol 20, No 4, 1968, pp 437-442.

NIH-HEW 7-6-68

Experimental Studies with N-(2'-Chloro-4'-Nitrophenyl)-5-Chlorosalicylamide, a New Agent against Taeniae. 1st Report: Chemotherapeutic Experiments, by R. Goennert GERMAN, per, Araneimittelforschung, Vol 10, No 11, 1960, pp 881-884.

HEW NIH 6-3-68

Experimental Studies with N-(2*-Chloro-4*-Nitrophenyl)-5-Chlorosalicylamide, a New Teniacide. Report 2. Toxicological Studies, by G. Hecht GERMAN, per, Arzneimittelforschung, Vol 10, No 11, 1960, pp 884-885.

HEW NIH 6-8-68

on the Genetics of Growth Forms, by Klaus happ-Zinn, 17 pp.

Granan, per, Beitraege Zur Biologie der Pflanzen, vol 38, Feb 1963, pp 161-177. 7500190368-V
Dept of Navy ONI tr 2381

The Telephone Transmission of the EEG, by H. Niebeling GERMAN, per, <u>Beitr Neurochir</u>, Vol 13, 1966, pp 122-126.
HEW NIH
6-19-68

The Importance of Mycoplasma in Pigs. II. Attempts at Transmission of a Swedish Mycoplasma Strain (Sep Agent) to Experimental Piglets, by M. Scheer CERMAN, per, Berlin Munchen Tieraerztl Wschr, Vol 80, No 21, 1967, pp 408-410. NIH-HEW 7-9-68

Effect of Pre-Operative Treatments on Anesthesis and Surgery, by H. G. Vourc'h. GERMAN, per, Cah Anesth, Vol 12, 1964, pp 5-68. NIH-HEW 7-1-68

Cleft Palate and Its Surgical Treatment, by R. Drachter, 52 pp. OKRMAN, per, <u>Deutsch Zeitschr. f. Chir</u>, Vol 131, 1914, pp 39-89. Dept of Navy/NMS 1283

The Automatic Recording and Analysis of the Movement Activity of Small Emperimental Animals, by F. J. Otto, K. H. Rohe.

GERMAN, bk, Examples of Amplied Research Yearbook of the Fraunhofer Society, 1966-1967, pp 78-83.

ACSI J-4403
ID 2204007168

Scientific Biological & Medical Sciences (Contd)

Some New Views on the Basic Concept of Respiratory Mechanism, by K. von Neergaard, 38 pp.

GERMAN, per, Exptl. Med., Vol 66, 1929, pp 373-394.

Dept of Navy/NMS 1264

The Presence of Rutile in Lung Dust, by A. Glauser.

GERMAN, per, Ges Zuerich, Vol 95, 1950, pp 2-3, 98-101.

NIH-HEW
7-2-68

The Influence of Bacterial Infection and Its Treatment in Acute Leukemia, by A. Stacher GKRMAN, per, Med Klin, Vol 61, No 40, 1966, pp 1576-1579.

HEW NIH
6-13-68

Overloading Damage on the Remaining Kneejoint in Femoral Amputees, by Christian Holland, 16 pp.

GERMAN, per, Monatschr. Unfallheilk, Vol 69, Jul 1966, pp 344-354.

Dept of Navy/NMS 1291

Preservation of Bread by Leans of Camma Radiation, by G. Stehlik, K. Kaindl, 23 pp. GERIAN, rpt. Osterr. Stud. fur Atomonergic Ges.m.b., Inst. Biologie und Land. Feel. Selbersdorf, 1967. P911254468-V AEC-ORNL-ITC-15

Relationship of Senile Cerebral Atrophy to Aphasia, by Arnold Pick GERMAN, per, <u>Prager Med. Wochenschr</u>, Vol 17, No 16, Apr 20, 1892, pp 165-167. *Dept of Navy/NMS 1294

Concerning the Fly Agaric, by C. H. Bugster GERMAN, per, <u>Vischr Naturf Ges Zurich</u>, Vol 11, Suppl 169, 1967, pp 1-39.
HEN NIH
6-12-68

The Second Principle in Riology, by R. Hasse. GERMAN, per, Zeitschrift Fuer Elektrochemie, Vol 55, No 6, 1951.
ACSI J-4463
ID 2204009269

Presentile Dementia (Pathological Cases Peculiar to Later Years) by A. Alzheimer, 48 pp. GERMAN, per, Zeitschr. f. Gesamte Neurol. u Psych., Vol 4, 1911, pp 356-385. Dept. of Navy/NMS 1286

Studies on the Specificity of Hemagglutination in Infectious Hepatitis, by S. Nagylucskay GERMAN, per, Z. Lumun Allergieforsch, Vol 129, 1965, pp 84-96.
NIH-HEW 7-20-68

Classification of Ferret Badger, by Wolf Everts GERMAN, per, Zeitschr f Saeugertierkunde, Vol 33, 1968, pp 1-19. *Dept of Navy/NMS 1295

Colliquative Amoebic Hepatitis with Secondary Lung Abscess, by A. Gambardella, 15 pp. ITALIAN, per, Acta Med. Italica di Med. Trop. e Subtrop. e di Gastroent, Vol 18, 1963, pp 267-272. Dept of Navy/NMS 1268

A Clincial Case of Primary Cavernoma of the Maxilla, by E. Gianni.
TTALIAN, per, Archivio Stomatologico, Vol 6, Apr-Jun 1965, pp 59-69.
ACSI J-5195
ID 2204015168

The Problem of Spontaneous Generation in the Past and Present, by P. Gelmetti ITALIAN, per, Med Secoli, Vol 4, No 1, 1967, pp 60-78.

HEN NIH 6-23-68

The Lipolytic Activity of Sabouraud's Microbacilius by R. Leone.
ITALIAN, bk, Sull'attivita Lipolitica del Microbacillo di Sabbouraud, pp 1027-1036.
ACSI J-5194
ID 2204015068

Experimental Rhabdomyosarcomas in the Rat and Cuinea Pig, by C. Maltoni ITALIAN, per, Tumori, Vol 49, No 5, 1963, pp 315-329.

NIH-HEW 7-21-68

Scientific Biological & Medical Sciences (Contd)

Leukocytotoxic Antibodies in Patients with Various Types of Leukemia, by E. Fagiolo ITALIAN, per, Tumori, Vol 53, 1967, pp 581-590.

HEW NIH
6-22-68

Diagnosis of Smallpox and Compox by the Fluorescent Antibody Technique, by S. Eato. JAPANESE, per, <u>All-Round Clinic</u>, Vol 13, No 7, pp 1239-1247.
ACSI J-5156
FSTC HT-23-262-68

On Morphine Addiction, by S. Kin JAPANESE, per, <u>Keijo J Med</u>, Vol 4, 1933, pp 89-92. NIH-HEW 7-13-68

Effects of Polyethylene Materials on the Endometrium (Polyethylene Ring. Report No 6, Tissue Biopsy), by M. Sakurabayashi JAPANESE, per, Nippon Sanka Fujinka Gakkai Z, Vol 18, 1966, pp 1351-1355.

NIH-HEW 7-12-68

Mucocutaneous Ocular Syndromes As Seen in the Blood Serum Protein Fraction. Electrophoretic Studies on Mucocutaneous Ocular Syndromes, by K. Kobayashi JAPANESE, per, Rinsho Ganka, Vol 10, No 4, 1956, pp 738-742.

NIH-HEN 7-18-68

pp 60-78.

Further Studies of the Histopathology of the HEN NTH

Eyeballs in Behoet's Disease, by H. Ikui

JAPANNER, per, Rinsho Ganka, Vol 14, No 2,

1960, pp 529-542.

The Lipolytic Activity of Sabouraud's Microbacilius

by R. Leone.

Further Studies of the Histopathology of the Hist

Medical Treatment and Health Maintenance Costs in the Soviet Union.

JAPANSE, per, Todays USSR, No 18, 1967, p 39.

AOSI J-5041

FOTO HT-23-211-68

The Effect of Low Cholesterol Diet on Persons Who Have Had Heart Infarct, by Faul Leren, 8 pp.
NORWECIAN, per, Nord. Med, Vol 77, 25 May 1967, pp 658-661.
Dept of Navy/NMS 1265

Small and Large Plaques Forming Variants of LTE Virus (Eastern Equine Encephalomyelitis), by Zofia Mroblewska-Mularczykowa.

POLISH, per, Madycyna Doswiadczalna 1 Mikrobiologia, Vol 19, No 4, 1967, pp 363-366.

ACSI J-4620
FSTC-HT-23-94-68

Local Application of Placenta in the Therapy of Intestinal Fistulae, by Marian Pinski, 13 pp.
POLISH, per, Polski Przeglad Chir, Vol 27, No 8, 1955, pp 781-785
Dept of Navy/NMS 1274

Rural Households Diet Analyzed, 15 pp. SERBO-CROATIAN, per, Ekonomika Poljoprivrede, Belgrade, July-August 1968, pp 765-775.
JPRS 46514

Nutrition of Various Working Groups Studies, by B. Filic-Krivodoljanin, 14 pp. SEEBO-CROATION, per, <u>Hrena i Ishrana</u>, Feb-Mar 19(8, pp 213-223.

JPIS 46497

Clinical and Experimental Studies on Venous Grafts (As Substitutes), by Juro Wada, 6 pp. SPANISH, per, Acad. Peru Cir., Vol 16, Mar 1964, pp 125-128.
Dept of Navy/NMS 1267

Hemongulutination with Enythrocytes of Macacus Rhesus in Typhoid Fever (Hoyt and Morrison Test), by V. De Feo SPANISH, per, <u>Boll Ist Sieroter Milanese</u>, Vol 42, 1963, pp 336-339.
NIH-HEM 7-15-68

Scientific
Biological & Medical Sciences (Contd)

General Information Concerning Viruses. VIETNAMESE, per, VI Trung Viet Cong Medical Marmal: BACTERIOLOGY Incl to 2 222 0819 67, pp 78-90.

ACSI J-4917
FSTC HT-23-178-68

Health Minister Urges Use of Vietnamese Medicine, by Pham Ngoc Thach, 5 pp. VIETNAMESE, np, Suc-khoe, July 1968, pp 1, 3. JPRS 46389

Health V. Summarizes Medical Conference, by Nguyen Duc Thang, 6 pp.
VILTNALESE, np. Suc-khoe, July 1968, pp 1, 3.
JPRS 46389

Chemistry

Selection of an Antioxidant Component for Detergent Additive SB-3, by A. M. Kuliyev RUSSIAN, coll; AN AzerbSSR. Institut. Khimii Prisadok. Prisadki k Smazochnym Maslam; Voprosy Sinteza, Issledovaniya i Primeniya Prisadok k Maslam, Toplivam i Polimernym Materialam, 1967, pp 158-160.
**FTD-HT-23-848-68C

The Use of Quaternary Ammonium Compounds to Stabilize Solutions of Viscous Lubricating Oil Additives, by A. M. Kuliyev.

RUSSIAN, Coll, AN AzerbSSR. Institut Khimii Prisadol. Prisadki K Smazochnym Maslam;
Boprosy Sintesa, Issledovaniye i Primniya Prisadok k Maslam. Toplivam i Polimernym Materiallam, 1967, pp 167-169.

WFTD-HT-23-850-68

Determining the Detergent Properties of Lubricating Oils by the PZV Method, by Sh. A. Mkhitaryan.

MKHITARYAN

Scientific Chemistry (Contd)

Burning of Heterogeneous Condensed Systems, by N. N. Bakhman, A. F. Belyayev, 21li pp RUSSIAN, bk, An SSSR. Institut Khimicheskoy Fiziki, 1967, pp 3-226 Pl00164268-V FTD-MT-24-315-67

Phase Diagram of the ZrC-Mo System, by S. S. Ordan'yan, A. I. Avgustinik, 11 pp. RUSSIAN, per, An SSSR. Issledovaniya v Chlasti Khimii Silikatov i Okislov. Sbornik Statey, 1965, pp 220-228. Pl00240168-V FTD-HT-23-1034-67

Thermoelectronic Properties of (UC) 2: (ZrC) 8V in Cesium Vapors, by A. G. Fedords, P. M. Marchuk, 5 pp. RUSSIAN, bk, AN UKRSSR. Institut Problem Materialovedeniya.

Vysokotemperaturnyye Neorganicheskiye
Soyedineniya, 1965, pp 274-277
PIO0205868-V
PTD-HT-23-898-67

Reaction of Ethylene Glycol Monoalkyl Ethers With Phosphorus Pentasulfide, by A. M. Kuliyev, Z. A. Alisade, 5 pp RUSSIAN, per, Aserbaydshanskiy Khimicheskiy Zhurnal, No 6, 1965, pp 10-13 P100202768-V FTD-HT-67-76

imm Oxide), by N. K. Druzhinina.
RUSSIAN, PER, Doklady ANSSSR, Vol 88, No 1, 1953, pp 133-135.
PID-HY-67-464

Invostigations in the Field of Dibasic Carboxylic Acids, by A. L. Hudshoyan, G. A. Hadnikyan, 6 pp.
RUSSIAN, per, An ARMSSR. Isvestiya. Seriya
Khimicheskikh Nauk, Vol 18, No 2, 1965, pp 185-192. P100240268-V
FTD-HT-23-807-67

Thermal Expansion of Ionic Crystals, by G. A. Krestov.
RUSSIAN, per, IVUZ. Khimiya i Khimiohaskaya, Vol 9, No 4, 1966, pp 558-562.
*FTD-HT-23-821-68C

Scientific Chemistry (Contd)

Chemical Properties of the Element 104-Kurchatovium, by I. Zvara, Yu. T. Chuburkov, et al., 10 pp. RUSSIAN, rpt, JINR-D7-3548, 1967, pp 19-23. AEC-ANL-Tr 632 P911252568-V

Separation of Deuterium from Hydrogen by Means of Low Temp Distillation Material, by M. P. Maldov. RUSSIAN, per, <u>Kislorod</u>, No 6, 1959, pp 1-13. *FTD-MT-24-324-68

Research on the Oxidation of Hydrocarbons in the USSR During the Last Fifty Years, by H. M. Emanuel.

RUSSIAN, per, Neftekhimiya, Vol 7, No 6, 1967, pp 827-841.

ACSI J-5042
FSTC HT-23-189-68B

Production of Oxygen, by D. L. Glizmanenko. RUSSIAN, monograph, <u>Polucheniye kisloroda</u>, 4th ed. Moscow, 1965, Chapter 12, pp 590-637. *FTD-HT-23-854-68C

Ferrocene, by N. A. Kochetkova, R. B. Materikova, 5 pp. RUSSIAN, per, <u>Priroda</u>, No 11, 1961, pp 98-100 P100205068-V FTD-HT-67-317

Colloido-Chemical Properties of Curing Smoke, by E. A. Khvan, R. F. Sadovskii. RUSSIAN, per, <u>Rybnoe Khoz</u>, Vol 44, No 7, 1968, pp 43-45. *Dept of Interior Bureau of Commercial Fisheries Branch of Forcign Fisheries

Investigation of the Structure of Surface of Burning of Model Mixtures of Solid Fuels, by P. F. Pokhil, L. D. Romodanova, 7 pp RUSSIAM, per, Teplo- I Massoperenos, Vol 4, 1966, pp 183-190 P100164768-V FTD-MT-24-248-67

Thermal Docomposition of Hexogen and Octogen, by Yu. Ya. Maksimov, 21 pp.
RUSSIAN, per, Trudy Hosk. Khim-Tekh. Inst., 1967, pp 73-84. P911254968-V
AEC-LA-Tr-68-30

Scientific Chemistry (Contd)

Intermediate Products of the Radiolysis of Water, by V. A. Sharpatyy, M. A. Proskurhin. RUSSIAN, per, Trudy II Vessoyusnogo Soveshchaniya Po Radiatsionnoy Ehimi, 1962, 7 pp.
ACSI J-4688
FSTC HT-23-54-68

Chemical Properties of Germanides of Lanthnum, by M. D. Lyutaya, A. B. Goncharuk, 6 pp.
RUSSIAN, per, Ukrainskiy Khimicheskiy Zhurnal, Vol 32, No 5, 1966, pp 433-436
Pl00201568-V
FTD-HT-67-406

Hydrogen Bond and Frequency of Valence Vibrations of the N-H and NO sub 2 Groups of Nitroanilines, by A. Ye. Lytskiy. RUSSIAN, per, <u>Ukrainskiy Khimicheskiy Zhurnal</u>, Vol 32, No 12, 1966, pp 1317-1320. *FTD-MT-24-340-68

Reaction of Urea and Ozalic Acid in Aqueous Schntion, by I. L. Ababarcimk. RUSSIAN, per, <u>Ukrainskiy Khisicheskiy</u> Emurnal, No 1, 1968, pp 12-13. ACSI J-5109 FSTC HT-23-238-68

Chemical Reaction Characteristics in Sublimating Hybrid Systems, by A. L. Hosse.
RUSSIAN, per, <u>Zhurnal Prikladnov Nekhariki i</u>
<u>Tekhnicheskov Fisiki</u>, No 5, 1967, pp 45-51.
*FTD-HT-23-799-68

Progress in Isonitrile Chemistry, by H. P. Gemberyen. HUSSIAN, per, Thurnel Vessoyumnogo Enimicheskogo Obshchastva, 1967, pp 65-76. AUSI J-5157 HSTC HT-23-257-68

Study of the Quaternary System BgO3-HF-CaO-HgO at 25°C. II. Identification and Study of Solids, by Jean-Louis Leibenguth.
FRENCI, par, Bull Roc Chim de France, No 12, 1966, pp 3811-3815.
AEC K-Trans-35
STS No 6688

Scientific Chemistry (Contd)

Galvanic Fuel elements, Emergy Sources of the Future, by V. Rabernickel, 31 pp. Gentral, per, Chemie Anlagen Jenfahren, No 4, 1967, pp 41-45; No 1/2, 1968, pp 45-50. r500189568-V
Dept of Navy NIC tr 2646

Organotin Compounds with Bulky Aryl Groups IV1, by Bahr Gerhard, Rolf Gelius, 7 pp. GERMAN, per, Chem Ber, Ro 91. Dept of Commerce ratent Office

Sulfur Isotope Conditions in North and South German Connate Waters and Evaporites, by German Mueller, & Heimo Nielsen, et al. 16 pp. GERMAN, per, Chem. Geol. No 1, 1966, pp 211-220. AEC-Tr-6947

Contributions Concerning Separation of Rare Earths. IX. The Systems Terbium Oxide-Yttrium Oxide and Terbium Oxide-Erbium Oxide, by L. Wolf, H. Schwab, 16 pp. GERMAN, per, Journal Fur Praktische Chemie, Vol 24, No 5/6, 1964, pp 293-304 Pl00207266-V

Condensation of Hercury Vapor in a Vacuum System and Its Effect on the Accuracy of Low rressure Leasurements, by Z. Caspiro, 12 pp. GERMAN, per, Yakuwa-Technik, Vol 17, No 3, 1968, Dept of Commerce Nat Bureau of Standards

Complex Formation of Aminopolycarboxylic Acid Esters With Transition Metal Ions, by L. Beyer, 0. Kuhn, 13 pp. GRMMAN, per, Zeitschrift Fur Anorganische Und Allgemeine Chemie, Vol 339, No 1/2, 1965, pp 8-19 P100205468-V FTD-HT-23-449-67

Chemical Reaction Kinematics, Part VI and Part VII, by A. Ding GERMAN, per, <u>Zeitschrift für Naturforschung</u>, Vol 23a, Part VI, 1968, pp 779-760; Vol 23a, Part VII, 1968, pp 780-781. *AFCRL Scientific Chemistry (Contd)

Spectrographic Determination of Impurities in Gallium Arsenide, by E. Laszkiewicz, 15 pp. POLISH, per, Przeglad Elektroniki, No 7, 1965, pp 328-336 P100203868-V FTD-HT-67-330

Earth Sciences & Oceanography

Effect of the Height of the Snow Cover on Natural Regulation of River Runoff in Eastern Georgia, by L. V. Sidorova. RUSSIAN, per, pp 101-109.
ACSI J-4887
FSTC HT-23-158-68

Mechanization of kining Operations Progressing, by B. Bratchenko, 6 pp. RUSSIAN, per, <u>Agitator</u>, No 14, 1968, pp 25-27. JPRS 46,247

Experience in Burial of Liquid Radioactive Wastes in Deep Geological Formations, by F. P. Yudin, M. K. Pimenov, 10 pp. RUSSIAM, per, Atomnaya Energiya, Moscow, Vol 25, No 2, August 1968, pp 128-133. JPRS 46535

Characteristics of Seismic Effect of Underground Explosions, by N. V. Kus'mins, D. A. Kharin, lh pp.
RUSSIAN, per, Finite Coreniya i Varyva, No h, 1966, pp 111-123. FIOURISHOS-V
FID-HT-2h=306-67

Construction of a Tribedral Signal With Rhombic Sheathing, by P. P. Dolmohayev.
MUSSIAN, per, <u>Occdesive i Kartografiya</u>, No 1,
1965, pp 31-35.
AGIO TO-1866

Experiment of Construction of a Signal With Shoubic Lattice, by Y. T. Zagrebnoy, Y. U. Zinovich. HIGSIAN, per, <u>Geodesiva i Enricerativa</u>, No 7, 1965, pp 36-37. ACIO TO-1847 Scientific
Earth Sciences & Oceanography (Contd)

Analysis of Expenditure of Labor and Finance in Topographic Surveying at Scale 1:25,000 in Hountain Regions, by V. A. Kargashiza, V. S. Kirillova.
RUSSIAN, per, Geodesiva i Kartografiya, No 12, 1965, pp 39-44.
ACIC TC-1449

Helicopters on Recommaissance and in Erection of Signals in Sanda Regions, by V. L. Gutkin. MISSIAN, per, Geodssiya i Kartografiya, No 8, 1966, pp 16-19.

ACIC TC-1444

Astronomic-Geodetic Net of the USSR, by S. G. Sudakov. RUSSIAN, per, Geodesiya 1 Kartografiya, No 10, 1967, pp 18-31. MACIC TC-1475

Fundamental Leveling Net of the USSR, by I. I. Entin. HNSSIAN, per, Geodesiya i Kartografiya, No 10, 1967, pp 32-37. waCIC TC-1474

Quantum Magnetometry, by N. M. Pomerantsev, V. M. Ryshkov, 93 pp. HUSSIAN, per, <u>Geofisicheskaya</u> Apparatura, Leningrad, No 33, 1967, pp 13-94. JPRS 46444

Geometry of the Earth Ellipsoid, by V. N. Gen'shin. MUSSIAN, bk, <u>Geometriya Essence Ellipsoids</u>. 1967, 115 pp. 48010 TG-1473

Hydrophysics of Bogs, by V. V. Romanov, 299 pp. HUSSIAN, bk, <u>Gidrofizika Bolot</u>, 1961 CFSTI TT 67-51289

History of Hydroengineering in Russian Pefore the Mineteenth Century, by V. V. Danilevskii, 190 pp. MISSIAN, bk, Istoriya Gidrosilovykh Ustanovok v Rossii Do Nochala XIX Veka, 1980. CFSTI TT 67-51344 Scientific
Earth Sciences & Oceanography (Contd)

Samot-Tor Oil Deposit in Western Siberia, by I. Osipov, 5 pp.
RUSSIAN, np. Izvestiya, 18 July 1968, p 5.
JPAS 46270

Cartographic and Geodetic Work in Russia in the 19th Century and at the Beginning of the 20th Century, by Z. K. Novokshanova-Sokolovskaya. RUSSIAN, bk, Kartograficheskiye i Geodezicheskiye Raboty V Rossii V XIX - Nachale XX V., 1967, pp 1-094. ACSI U-5262 ID 2204015368

Meteorology and Hydrology, 201 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 6, June 1968, pp 3-124.
JPRS 46556

Meteorology and Hydrology, 148 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 7, 1968, pp 3-124.
JPRS 46566

Cavitation Problems, by A. D. Pernik. RUSSIAN, bk, Problemy Kavitatsii, 1966, pp 1-439. *FTD-HT-23-802-68C

Tall Building Construction in Seismic Regions, by A. Nazarov, S. Shaginyan, 5 pp. RUSSIAN, per, Promyshlennost' Armenii, No 6, 1968, pp 46-48.
JFRS 46407

Nackerel Fisheries to Develop in Pacific, by N. A. Semenov, 7 pp. RUSSIAN, per, Rybnoye Khozysystvo, Vol 44, No 5, 1968, pp 42-45.
JPRS 46,342

Upper Mantle Inhomogeneity in the Western Part of Central Asia, by V. I. Shraybman.
RUSSIAN, per, Sovetskaya Geologiya, No 8, 1967, pp 101-106.
**AGIC TC-1476

The Sadko-2 Underwater Laboratory, by A. V. Mayer, V. Ye. Dzhus, O pp. RUSSIAN, per, Sudostroyeniye, Leningrad, May 1968, pp 11-14.
JPRS 46427

Scientific
Earth Sciences & Oceanography (Contd)

Effect of Admixtures of Surface-Active Substances on the Effectiveness of Ice-Forming Solutions of Phloroglucinol, Silver Iodides and Lead Iodides, by T. N. Gromova, N. V. Gliki, 11 pp. RUSSIAN, per, <u>Trudy Glavnoy Geofizicheskoy Cbservatorii</u>, No 186, 1966, pp 18-25.

JPRS 46050

Wealth of Rivers, Seas and Oceans, 5 pp. RUSSIAN, np. Vodnyy Transport, 6 Aug 1968, p 1.
JPRS 46407

Benthic Fauna of the Norwegian-Iceland Area as an Indicator of Mater Regime, by Z. I. Kobyakova, 9 pp. RUSSIAN, per, Zoologicheskiy Zhurnal, Vol 39, No 3. 1960, pp 321-326. F500198068-V Dept of Navy Nuc tr 390

relagic Larvae of Some rolychaeta in the White Sea, by V. A. Sveshnikov, 19 op. RUSSIAN, per, Zoologicheskiy Zhurnal, Vol 39, No 3, 1960, pp 343-355. r500198768-V Dept of Mayy Noo tr 389

Cartographic Compilation, by Jacques Bertin. FRENCH, per, Bulletin du Comite Français de Cartographie, No 36, May-June 1968, pp 62-65. ACIC TC-1478

On the Design of Arch Dams of Complex Configuration by the Method of Dismembering and Taking into Account the Yielding Nature of the Foundation, by L. A. Rozin, 40 pp.
RUSSIAN, per, Izvestiya Vsesoyuznogo Naucho-Issledovatel skogo Instituta Gidrotekhniki Imeni B. E. Vedenceva, Vol 79, 1965, pp 127-154.
CISTI TT 67-59012

Principles of Absolute Differential Geometry of the Earth's Potential Field, by A. Marussi. FRENCH, per, <u>Bulletin Geodesique</u>, No lli, 1949, pp 411-439.

ACIC TC-1391

On a Very General Integral Equation of Gravimetry, by J. J. Levellois. FRENCH, per, <u>Bulletin Geodesique</u>, No 50, 1958, pp 36-49. ACIC TC-1390 Scientific
Earth Sciences & Oceanography (Contd)

The Alimentary Regimen of Three Antarctic Teleostei Nothothenidae (Adelie Land), by Patrick Arnaud, Jeanne Cluade Hurea. FRENCH, per, Bull Inst Oceanogr Monaco, Vol 66, No 1368, 1966, 24 pp. P500225568-V Dept of Navy NIC Trans No 2652

Survey of Mining Activity in Mauritania, 13 pp. FRENCH, per, Europe France Outre-Mer, Apr-May 1968, pp 33-39.

JPRS 46,320

Investigation of the Scale Effect of Cavitation Erosion, by J. Varga, Gy. Sebestyen, 27 pp.
GERMAN, per, Acta Techn. Hung, No 51, 1965, pp 361-379
P100208668-V
FTD-HT-23-508-67

Astrogeodetic and Grawimetric Work During the Construction of a Laboratory for Inertial Systems, by R. Sigl.
(ERMAN, rpt, Astronomisch-Geodetische und Gravimetrische Arbeiten bei der Errichtung eines Labors für Inertialsystems, 1907, 41 pp. ACIC TC-1378

An Attempt to Determine the Unknown Parts of the Earth's Gravity Field From Coservations of Successive Satellite Transits, by K. Arnold, L. Stange. GERMAN, per, Gerlands Beitrage sur Geophysik, Vol 77, No 3, 1968, pp 185-190. **ACIC TC-1177

Rain Erosion Durin, Ultrasonic Velocity, by G. Hoff, 14 pp.
GHCAN, per, Flug. Rev. International, No 11, 1967, pp 35-56.
AEC-Sc-T-68, 1535 P911252368

The Determination of Geoid Undulations From Free-Air Anomalies, by K. Arnold. GERMAN, per, Veroffentlichungen des Geodatischen Instituts in Fotsdam, No 12, 1959, pp 5-50.

On the Determination of the Good From Satellite Observations, by H. Groten. GERMAN, per, <u>Seitschrift for Vermessungsmesen</u>, Vol 91, No 5, 1966, pp 164-165. ACID TO-1422 Scientific
Earth Sciences & Oceanography

Estimation of the Weights of the Error Equations in the Adjustment by Observation Equations, by R. Rubik.

GERMAN, per, Zeitschrift für Vermask ingswesen, Vol 92, No 5, 1967, pp 173-178.

ACIC TC-1423

Current Problems of Engineering Geodesy Activity, by Dr. Laszlo Balazs, 16 pp. HUNGARIAN, per, Geodezia es Kartografia, No 2, 1968, pp 92-98.

JPRS 45843

Thematic Cartographic Conference Held in Dresden, by Arpad Papp-Vary, 11 pp. HUNGARIAN, per, Geodezia es Kartografia, Budapest, No 3, 1968, pp 222-224. JPRS 46421

Calculation of Lischarge Through Openings and Over Spillways on the rasis of the Flow Equation, by Janusz Laszewski, 10 pp. FOLISH, per, Gospodarka Wodna, vol 25, No 12, 1965, pp 458-461.
CESTI TT 67-56046

The Soils of the Voivodship of Kielce, by Michal Strzemski, 28 pp.
POLISH, per, <u>Przeglad Geograficzny</u>, Vol 26, No 1, 1954, pp 47-65.
CFSTI TT 66-57015

Activities of the Center for Photogrammetry, by N. Zegheru, S. Radu, 5 pp.
RUMANIAN, per, Buletin de Fotogrammetric,
Bucharest, March 1968, pp 3-8.
JPRS 46421

Survey of Military Topographic Service History, by Vasile Suta, 10 pp. RUMANIAN, per, Revista de Geodesie ai Organizarea Teritoriului, Bucharest, March 1968, pp 61-70.

JPRS 46421

Improvement of Quang Ninh Coal Mining Discussed, 7 pp. VIETNAMESE, np. Nhan-dan, 18 Jul 1968, p 2. JPRS 46,358

Scientific
Earth Sciences & Oceanography (Condt)

Scientific
Electronics & Electrical Engineering (Contd)

Best Source of Water Used in Highlands, by Nguyen Van Mau, 5 pp. VIETNAMESE, np. Suc-khoe, July 1968, pp 4, 8. JPRS 46389

Electronics & Electrical Engineering

On the Multiterminal Computer, by
M. V. Mishurnaya, 4 pp.
RUSSIAN, rpt, AN BSSR. Institut Tekhnicheskoy
Kibernetiki. Vychislitel'naya Tekhnika, 1965,
pp 10-14. P100242468
FTD-MT-24-236-67

Magnetic Immediate-Access Storage Unit (Mozu) on Ferrite Pairs, by G. K. Afanas'yev, 8 pp RUSSIAN, bk, An BSSR. Institut Tekhnicheskoy Kibernetiki.

Vychislitel'naya Tekhnika, 1965, pp 140-148
P100163768-V
FTD-MT-24-327-67

Some Problems in Generating Mumerical Information for Visual Observation, by V. F. Yur'yev, K. O. Shepelenko, 4 pp. RUSSIAN, per, An BSSR. Institut Tekhnicheskoy Kibernetiki. Vychislitel naya Tekhnika, 1965, pp 163-167. P100245768-V FTD-MT-24-343-67

Scanning Device Utilizing a FiberOptical Converter, by O. I. Karyagin, 6 pp
RUSSIAN, bk, An SSSR, Institut
Avtomatiki I Telemekhaniki.
Tekhnicheskaya Kibernetika, 1965, pp 326-330
Pl00163268-V
FTD-MT-24-314-67

Some Aspects of Pattern Recognition with the Application of Threshold Elements, by A. B. Shubin, 9 pp. RUSSIAN, per, AN SSSR. Institut Avtomatiki i Telemekhaniki. Samoobuchayushchiyesya Avtomaticheskiye Sistemy, 1966, pp 94-101. Pl00217868-V FTD-HT-23-1044-67

Analog-Digital Computer Using Magnetostrictive Delay Lines, by M. M. Sukhomlinov, N. K. Ferenets, 10 pp.
RUSSIAN, rpt, AN SSSR. Institut Avtomatiki i Telemekhaniki (Tekhnicheskoy Kibernetiki)

"Vyohislitel'naya Tekhnika v Upravlenii", 1966, pp 143-152. P100244968-V
FTD-MT-24-289-67

A Computer for a Marine Gravimeter Mith an Optical-Mechanical Converter, by I. P. Bashilov, V. A. Konovalov, 24 pp.
RUSSIAN, rpt, AN SSSR. Institut Fiziki Zemli.
Pribory Mya Opredeleniya Sily Tyazhesti na
More i Ikh Issledovaniya, Moscow, Izd-vo Nauka,
1966. Pl00251268-V
FTD-MT-24-13-68

Electronic Digital Computer Simulation of One Method, by A. M. Kukinov, V. S. Fayn, 14 pp.
RUSSIAN, per, AN SSSR. Institut Problem Peredachi Informatsii. Problemy Peredachi Informatsii. Teoriya Peredachi Informatsii. Teoriya Peredachi Informatsii. Nauka. Moskva., No 16, 1964, pp 48-56
P100201868-V
FTD-HT-67-332

The Optimum Method of Pattern Recognition for Mutually Correlated Characteristics, by I. T. Turbovich, 10 pp. RUSSIAN, bk, AN SSSR. Institut Problem Peredachi Informatsii. Opoznaniye Obrazov. Teoriya Peredachi Informatsii, 1965, pp 3-10. P100227468-V FTD-HT-23-962-67

The Problem of Documental Information, by O. O. Vorob'yev, 39 pp.
RUSSIAN, per, An SSSR. Nauchray Sovet po
Kibernetike. Seriya "Organisatsiya i
Upravleniye." Kibernetika i Dokumentalistika,
1966, pp 5-34. P100240568-V
FTD-HT-23-659-67

Hierophotoreproduction Mathods of Reducing Documental Information, by S. A. Lipkin, 47 pp. RUSSIAN, per, An SSSR. Nauchnyy Sovet po Kibernetike. Seriya "Organisatsiya i Upravleniye." Kibernetika i Dokumentalistika, 1966, pp 35-80. P100240568-V FTD-HT-23-659-67

Scientific Electronics & Electrical Engineering (Contd)

Scientific Electronics & Electrical Engineering (Contd)

Use of Edge-Punched Cards for Abstract Information on the Basis of the RZh "Metallurgiya", by T. P. Kolesnikova, A. V. Shmeleva, 10 pp. RUSSIAN, per, An SSSR. Nauchnyy Sovet po Kibernetike. Seriya "Organizatsiya i Upravleniye." Kibernetika i Dolumentalistika, 1966, pp 81-89. P100240568-V FTD-HT-23-659-67

Ways of Using Information Search Systems in Medicine, by N. M. Amosov, O. P. Mintser, 13 pp. RUSSIAN, per, An SSSR. Nauchnyy Sovet po Kibernetike. Seriya "Organizatsiya i Upravleniye." Kibernetika i Dokumentalistika, 1966, pp 90-100. Pl00240568-V FTD-HT-23-659-67

Solution of Some Information Logic Problems of
General Chemistry on Electronic Digital Computers,
by A. L. Seyfer, 15 pp.

RUSSIAN, per, An SSSR. Nauchnyy Sovet po
Kibernetike. Seriya "Organizatsiya i
Upravleniya." Kibernetika i Dokumentalistika,
1966, pp 101-137. P100240568-V

FTD-HT-23-659-67

Statistical Inve.
Reliability of a

An Information System on the Mathematical Theory of Experimentation, by V. V. Nalimov, Yu. P. Adler, 28 pp.
RUSSIAN, per, An SSSR. Nauchnyy Govet po Kibernetike. Seriya "Organizatsiya i Upravleniye! Kibernetika i Dokurentalistika, 1966, pp 138-149. Ploceho568-V FTD-HT-23-659-67

Setting Up Reliability Networks of Neuron-Like Elements, by V. G. Totsenko, B. M. Yegorov, 12 pp. RUSSIAN, bk, AN SSSR. Nauchnyy Sovet Po Kompleksnoy Problems Kibernetika.

Bionika, 1965, pp 147-154
P100201268-V
FTD-HT-23-798-67

About Certain Simpler Realizations of a Computer Medium, by
E. V. Yevreinov, Yu. G. Kosarev,
12 pp.
RUSSIAN, per, AN SSSR, Sibirakove
Otdeleniye, Institut Matematiki.
Vychislitelinye Sistemy, No 16,
1965, pp 73-86.
P100219366-V
PTD-HT-23-914-67

General-Purpose Computer Systems With Partially Variable Structure, by E. V. Yevreinov, 62 pp.
RUSSIAN, per, AN SSSR. Sibirskoye Otdeleniye. Institut Matematiki.
Vychislitel'nyye Sistemy, No 17, 1965, pp 3-60.
Pl00227668-V
FTD-MT-24-362-67

About the Solution of Problems on Universal Calculating Systems, by E. V. Yevreinov, Yu. G. Kosarev, 72 pp. RUSSIAN, per, AN SSSR. Sibirskoye Otdeleniye. Institut Matematiki Vychislitel'nyye Sistemy, No 17, 1965, pp 106-164. P100228068-V FTD-MT-24-335-67

Statistical Investigations of the Reliability of a Reading Automat With Optical Correlation, by V. K. Yeliseyev, 11 pp.
RUSSIAN, bk, AN UKRSSR. Chitayushchiye Avtomaty I Raspoznavaniye Obrazov, 1965, pp 113-124.
P100226768-V
FTD-HT-23-963-67

Magnetic Properties of Thin Ferromagnetic Films and the Performance Curves of Film Elements of Memory Matrices, by G. P. Zharikov, Yu. V. Ostapenko, 8 pp.
RUSSIAN, bk, AN UKRSSR, Kiberneticheskaya Tekhnika, 1965, pp 11-18.
Pl00218868-V
FTD-HT-23-784-67

Digital Differential Analyser
"Navigator", by A. A. Gurakov,
Yu. N. Kamayev, 10 pp.
RUSSIAN, bk, AN USSR, Institut
Kibernetiki, Vyohislitel'nava Tekhnika
V Upravlenii, 1966, pp 127-133.
P100227368-V
FTD-HT-23-965-67

Scientific Electrical Engineering (Contd)

Electronics & Electrical Engineering (Contd)

Scientific

Theory of Capacitance Mathematical Machines, by G. Ye. Pukhov, 11 pp.
RUSSIAN, rpt, AN UkrSSR. Institut Kibernetiki.
Seminar po Metodam Matematicheskogo Modelirovaniya i Teorii Elektricheskikh Tsepey, Trudy,
No 3, 1965, pp 54-63. F100243168-V
FTD-MT-24-360-67

On Noise Immunity of Binary-Decimal Codes, by V. V. Yefimenko, 8 pp RUSSIAN, per, Avtometriya, No 2, 1965, pp 63-68 Pl00163168-V FTD-MT-24-312-67

The Relation of Certain Quality Indices in Controllable Linear Stationary Systems, by L. S. Gnoyenskiy, 8 pp. RUSSIAN, per, Doklady Akademii Nauk SSSR, Hoscow, Vol 181, No 1, 1968, pp 35-38. JPRS 46525

Electrical Characteristics of the Explosion of Thin Metallic Wire in Vacuum, by E. K. Chekalin RUSSIAN, per, Energeticheskiy Institut, Izd-vo "Nauka", pp 110-113.

Photoelectric Measuring Systems; Measuring of Linear and Angular Values, by A. V. Mironenko. RUSSIAN, monograph, Fotoelektricheskiye Izmeritel'nyye Sistemy; Izmereniye Lineynykh i Uglovykh Velichin, Moscow, Izd-vo "Energiya", 1967, pp 1-360.
*FTD-HT-23-853-68C

A Language for Describing and Modeling Digital Structural Systems (TSMIOD), by Kh. Salum, 13 pp.
RUSSIAN, per, AN ESTSSR. Izvestiya.
Seriya Fiziko-Matematicheskikh I
Tekhnicheskik Nauk, No 3, 1965, pp 464-471
Pl00203568-V
FTD-HT-67-204

Magnetic Field in a Channel of Rhomboidal Cross-Section in the Presence of a Steel Magnetic Conductor, by S. A. Gamzayeva, RUSSIAN, per, <u>Izvestiya AN SSSR. Energetika i Transport</u>, No 2, 1968, pp 28-33.
**FTD-HT-23-876-68C

Some Principles of Learning and Learning with the Aid of Machines, by V. A. Dolyatovskiy, 12 pp.
RJSSIAN, per, <u>Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika</u>, No 8, 1965, pp 881-890.
P100218368-V
FTD-HT-23-631-67

A Computer for the Statistical Analysis of Shadow Graphs of Processes, by L. V. Brusentsov, V. S. Burok, 12 pp.
RUSSIAN, rpt, <u>Izvestiya Vysshikh Uchebnykh</u>
Zavedeniy, Elektromekhanika, 1967.
F100251368-V
FTD-MT-24-107-68

Some Features of an Automatic Coordinate Spotting Device Using a Binary Quantized Signal Storage Unit, by L. Ya. Novosel'tsev.
RUSSIAN, per, <u>IVUZ</u>. Radioelektronika, Vol 10, No 8, 1967, pp 755-760.
*FTD-NT-24-334-68

A System for Automatic Color Recognition of Images, by V. A. Fesechko.
RUSSIAN, per, IVUZ. Radioelektronika, Vol 10, No 8, 1967, pp 801-808.
*FTD-MT-24-349-68

Table Model of an Electronic, KeyOperated Computer, A. M. Shauman,
M. K. Chirkov, 10 pp.
RUSSIAN, per, Kafedra Vychislitel'noy
Matematiki I Vychislitel'nyy Taentr.
"Vychislitel'naya Tekhnika I Voprosy
Programmirovaniya", No 1, 1962,
pp 3-10
P100199768-V
FTD-HT-67-36

Automatic Adjustment of Magnetic Mass Spectrometers to the Maximum Peak Value of an Ion Current Using an Extremum Controller, by A. A. Volkov.

RUSSIAN, per, Kharkov. Institut Radicelektroniki.

Pribory i Sistemy Avtomatiki, No 5, 1967, pp 28-38.

*FTD-MT-24-359-68

An Approach to the Classification of Computer-Solved Problems, by I. V. Sergiyenko. RUSSIAN, per, <u>Kibernetika</u>, No 4, 1967, pp 31-38. *FFD_MT-24-336-68

Scientific Electrical Engineering (Contd)

Automated Management Needs New Approach, by L. Gaft and D. Zyuzin, 5 pp. RUSSIAN, np, Literaturnaya Gazeta, 8 May 1968, p 10.
JPRS 45686

Computation Technology in Automatic Control Systems, by V. I. Loskutov, 10 pp. RUSSIAN, per, <u>Mekhanizatsiya i Avtomatizatsiya Proizvodetya</u>, No 3, 1964, pp 144-47. P100223068-V FTD-HT-23-835-67

Synthesis of Systems for the Generation of Cyclic Correcting Codes, by Ye. A. Gurvits. RUSSIAN, per, Moscow. Institut Avtomatiki i Telemekhaniki Abstraktnaya i Strukturnaya Teoriya Releynykh Ustroystv, Moscow, Izd-vo Nauka, 1966, pp 142-167.
**FTD-HT-23-878-68C

Experience in Circuit Line Design for a Small Transistorized Digital Computer, by V. S. Zubov. RUSSIAN, rpt, Moskovskaya Konferentsiya Molodykh Uchenykh i Spetsialistov, 1, 1964. Kibernetika: Sbornik Trudov Konferentsii Moscow, 1967, pp 172-183.
*FTD-MT-24-322-68

Investigation of Information Losses and Information Noise in Descriptor Information Retrieval Systems, by A. V. Sokolov, 18 pp RUSSIAN, per, Nauchno-Tekhnicheskaya Informatsiya, No 12, 1965, pp 23-28 P100206C68-V FTD-MT-24-156-67

Randomization of the Repeatability of Attributes in Information-Retrieval Systems Based on Punched Cards with Superpositions Coding, by L. Ia. Pirovich
RUSSIAN, per, Nauchno-Technicheskaya Informatsiya. Seriya 2. Informatsionnyye, No 7, 1967, pp 21-23.
*FTD-HT-23-881-68C

Scientific Electronics & Electrical Engineering (Contd)

Centralized System for Assembly and Processing of Information (SOFI), by M. N. Ivanov, V. I. Kadashevich, 22 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Konferentsiya po Yadernoy Radioelektronike, 6th
Moscow, 1965, Trudy, Analizatory, Eloki Nakopleniye i Obrabotka Informatsii, Vol 3, 1965, pp 110-136. Pl00244668-V

Centralized Control and Automatic Punching in a System of Overall Automation of Experimental Works, by V. T. Ilyukhin, V. D. Poletayev, 9 pp.
RUSSIAN, rpt, Nauchno-Tekhricheskoye Obshchestvo Mashinostroitellnoy Promyshlennosti, Turbo-porshenevyye Dvigateli, Sbornik Statey, 1965, pp 272-281. P100242568-V

Computerized Information Service at Tool Plant, by V. Kovelevskiy, 6 pp. RUSSIAN, per, NTO SSSR, No 3, 1968, pp 12-13. JPRS 45857

Computerized System for the Tool Plant, by Nikoley Aleksandrovich, 6 pp. RUSSIAN, per, NTO SSSR, No 3, 1968, pp 14-15. JPRS 45857

Self-Adjusting Teaching Machines, by A. M. Dovgyallo, lh pp.
RUSSIAN, per, Nauchnyy Sovet Po
Kibernetike An USSR. Sektsiya
Kibernetiki Kdntp. Seminar.
"Programmirovannoye Obucheniye I
Obuchayushchiye Mashiny", No 4, 1965, pp 77-97.
Pl00228668-V
FTD-HT-23-1313-67

The Problem of Pattern Recognition, by V. I. Varshavskiy, 17 pp. RUSSIAN, bk, Nauchno-Tekhnicheskoye Obshchestvo Radiotekhniki I Elektrosvyas I. Ribernetika I Elektronno-Vychislitel nava Tekhnika, 1962, pp 12-26 Pl00204968-V FTD-HT-67-4444 Automation of the Soparate Most Important Stages of Engineering Production Preparation is Presently Assuming an Especially Urgent Value, by G. Goranskiy, I. Mityayev, 7 pp. RUSSIAN, per, Nauka I Tekhnika, No 4, 1967, pp 2-5. P100220568 FTD-MT-24-371-67

Machines Calculate, Control, Check, 6 pp. RUSSIAN, per, Nauka i Tekhnika, No 5, 1967, pp 24-26. P100220768-V FID-NI-24-372-67

Certain Problems in the Application of Electronic Computers in the Mechanization of Accounting Procedures, by L. A. Petrunya. RUSSIAN, per, Pribory i Sistemy Upravleniya, No 5, 1967, pp 30-32. *FTD-HT-23-806-68

Use of Computers in Architecture and Building Industry, by G. G. Patrunov. RUSSIAN, mono, Primenie Elektronnykh Vychislitel'nykh Mashin v Arkhitekturno-Stroitel nym Pro-Yektirovanii, Moskva, Stroitel'stvo, 1966, pp 7-*FTD-MT-24-319-68

1000 Gigaelectronvolt Cybernetic Accelerator, by A. L. Mints, 14 pp. RUSSIAN, per, Priroda, Moscow, No 4, 1968, pp 8-15.
JPRS 46447

On the Synthesis of Microprogrammed Automatons, by V. G. Lazarev, 24 pp. RUSSIAN, per, Problemy Peredachi Informatsii, Vol 1, No 2, 1965, pp 63-78. P100226368-V FTD-HT-23-834-67

Digital Computer of Geometric Characteristics of Sections Relative to Central Axes, by V. P. Kolomiyets, 8 pp. RUSSIAN, per, Samoletostroyeniye i Tekhnika Vozdushnogo Fleta, No 4, 1965, pp 91-97. P100221369-V FTD-HT-23-850-67

Simulation of Discrete Automata on General-Purpose Computers, by A. A. Utkin. RUSSIAN, rpt, Sb Vychisl Sistemy, Vol 25, 1966, pp 45-73. *FTD-MT-24-320-68

Counting Circuits Using Magnetic Logical Elements, by N. L. Prokhorov RUSSIAN, monograph, Schetnyye Skhemy Na Magnitnykh Logicheskikh Elementakh, Moscow, Izd-vo "Energiya", 1967, pp 1-47.
**FTD-MT-24-364-68

Some Problems in the Control of Territorial Networks of Transmission and Processing Of Information, by I. A. Bashmakov RUSSIAN, Col; Simpozium Po Probleme "Vychislit-el'nyye Sistemy Novosibirsk, 1966, Vychislitel nyye Sistemy; Trudy Simpoziuma. Novosibirsk, Izd-vo "Nauka", 1967, pp 63-71.
*FTD-HT-23-879-68C

One Method of Realization of Automata in a Computing Medium, by B. A. Sidristyy. RUSSIAN, rpt, Simpozium po Probleme "Vychislitel'-ryve Sistemy", Novosibirsk, 1966. Vychislitel'nyve; Trudy Simposiuma, 1967, pp 209-214. *FTD-HT-23-805-68

Conventional Symbols for Electrical Diagrams, RUSSIAN, per, Tekhnika v Selskom Khozvavstve, No 5, 1968, pp 43-47. JPRS 46083

Physical Bases of Certain Test Programs for Immediate-Access Magnetic Memory Units, by A. V. Gusev, 16 pp HUSSIAN, per, Tsifrovaya Vychislitel'-neya Tekhnika I Programmirovaniye, No 1, 1966, pp 74-86 Plo0163668-V FTD-MT-24-321-67

An Analog Computer Adaptor Unit for Determining the Autocorrelation and Crosscorrelation Functions, by Z. Sh. Kipshidze, A. M. Morozov, 15 pp.

RUSSIAN, per, Trudy. AN GRUZSSR.

Vychislitel'nyy Tsentr, Vol 6, No 1, 1965, pp 42-58

Pl00164568-V

FTD-MT-24-326-6,

Complete Modulo Equipment Check in a System of Two Identical Computers, by Yu. I. Torgov, V. V. Shafranskiy, 8 pp.
RUSSIAN, rpt, AN SSSR. Vychislitel'nyy Tsentratrudy. Kontrol' Raboty Elektronnykh Vychislitel'nykh Mashin, 1965, pp 24-31. F100242968-V FTD-MT-24-353-67

Certain Aspects of the Interaction Between a Digital Computer and Its Control Apparatus, by N. G. Maslov.
RUSSIAN, rpt, <u>Tr Mosk in-t Elektron Mashinstr</u>.
Vol 2, 1966, pp 309-319.
*FTD-NT-24-321-68

Polynomial Interpretation System, by V. V. Zakharov, 7 pp. RUSSIAN, per, Trudy, Tomsk, Universitet. Sibirskdy Fiziko-Tekhnicheskdy Institut, Vol 47, No 4, 1965, pp 5-10. Pi00244868 FTD-MT-24-351-67

Development of Theory of Invariance and its Applications, by G. N. Ulanov, 2 pp. RUSSIAN, por. AN SSSR, Vestaik, No 9, 1966, pp 108-109. P100200368

Investigation of Heat Transfer Phenomena in a Moving Medium, Carried out with the Aid of Digital Computers, by N. I. Nikitenko. RUSSIAN, per, V. Sb. Konvektivn. Teploobmen; Kiev. Nauk. Dumka, 1965, pp 94-104. **FTD-HT-23-855-68C

Herald of Communications, 93 pp. RUSSIAN, per, Vestnik svyazi, Vol XXVIII, No 6, June 1968, pp 1-32.
JPRS 46271

Automated Information Systems for the VUZ, by V. V. Solodovnikov, F. Ye. Temnikov, 7 pp. RUSSIAN, per, <u>Vestnik Vysshey Shkoly</u>, Moscow, No 6, 1968, pp 52-55. JPRS 46532

A Method of Recognizing Handwritten Symbols, by V. M. Trusfus, V. I. Medvedev, 6 pp.
RUSSIAN, rpt, Patent 156355
(779803/26-24) Class G061; 42m,
14, pp 1-5.
P100228568-V
FTD-HT-67-122

A Multichannel Angular-Displacementto-Digital-Code Converter, by L. P. Gorokhov, 3 pp. RUSSIAN, rpt, Patent 161649 (812918/26-24) Class 74b, 805, pp 1-2. P100228568-V FTD-HT-67-122

Electronic Oscillator of Nanosecond Pulses, by A. D. Sushkov, 2 pp. RUSSIAN, rpt, Patent 168756 (860187/26-9) Class 21a1, 3602, pp 1-2. P100229068-V FTD-HT-23-974-67

Binary-Decimal Reversible Counter, By N.I. Gorelikov, I. I. Korshever, 3 pp RUSSIAN, Patent No. 174,008. Pl00227568-V FTD-HT-23-951-67

A Method for Correcting Multiple Error Bursts, by O. V. Popov, 6 pp. RUSSIAN, rpt, Patent 174207. P100228568-V FTD-HT-67-122

Device for Separating Periodic Voltages and Measuring their Period at a Low Useful Signal-to-Noise Ratio, by N. M. Kanonykhin, 2 pp. RUSSIAN, Patent 180,647. P100226468 FTD-HT-23-967-67

Start of Machine Translation in Bulgaria, by A. Lyudskanov, 13 pp.
BULGARIAN, per, Bulgarska Akademiya na Naukite, Spisanie, No 2, 1965, pp 64-74. P100228868
FTD-HT-67-487

Use of Computers Requires High Managerial Skills, by Iv. Mandadzhiev, 7 pp.
BULGARIAN, per, <u>Schetovodstvo i Kontrol</u>, No 4, 1968, pp 39-45.
JPRS 46,325

The Determination of the Resonance Fraquency of Lagnetrons with a Coaxial Waveguide Type Transmitter, by Chang Chao-Yang.
CHIMBSE, per, We Msien Tier Chi Shu, We 10, 1965, pp 18-21.
ACSI J-3768
ID 22040555247

lagnatron, by Yao Chii. CHIMSSM, per, <u>Mu Hoien Tien Chi Sim</u>, No 4, 1966, pp 12-13. ACSI J-3767 ID 2204055167

A Conversation on the Use of Ministure Stations, by Mang Chlang-lin.
CHLESE, per, We Hsien Tien Chi Sim, No 4, 1966, pp 25-26.
ACSI J-3767
ID 2204055167

Universal Aggregate System for Pneumatic Control, by V. Multrus, 8 pp. CZECH, per, Automatizace, No 7, 1965, pp 171-174 Pl00200868-V FTD-HT-23-683-67

Microminiaturization, by V. Benedikt, J. Sedmidubsky, 229 pp. CZECH, per, Mikrominiaturizace, Prauge, Sntl, 1965, pp 1-242. P100241768-V FTD-MT-23-611-67

Problem of an Analog Memory in a Linear Interpolator, by M. Preucil, 11 pp. CZECH, per, Slaboproudy Obzor, Vol 27, No 3, 1966, pp 160-164. P100219268-V FTD-HT-23-846-67

Automation of Machines by Means of Pneumatic Logical Elements, by 0. Brychta, 15 pp. CZECH, per, Strojirenska Vyroba, Vol 14, No 1, 1966, pp 14-23. P100219168-V FTD-HT-23-847-67

Some Instruments Built in the Institute, 9 pp. CZECH, bk, Vyskumne Problemy Technickej Kybernetiky A Mechaniky, 1965, pp 299-306. P100228768-V FTD-HT-23-922-67

Use of an Analogue Computer at a Melting Shop, by C. van den Hove, P. Dauby FRENCH, per, C.N.R.M., Mar 1967, pp 39-43 BISI 6312

Use of an Analogue Computer to Calculate Charges at Arbed's Basic Bessemer Melting Shop at Esch-Belval, by C. Pescatore FRENCH, per, <u>C.N.R.M.</u>, Mar 1967, pp 45-47 BISI 6311

Data Processing for Rail System Discussed, 7 pp. GERMAN, per, Fahrtfrei, Apr 1968, pp 6-7. JPRS 45685

Realization of any Desired Type of
Storage Unit with the Aid of Components
from a Newly Developed Pneumatic Logic
System, by S. Pilz, 12 pp.
GERMAN, bk, Institut Fur Regelungs-Und
Steuerungstechnik Der Deutschen
Akademie Der Wissenschaften, Deutschland;
Institut Fur Automatisierung Und Kybernetik, Moskau Papers 1.3 and 1.4 of
Session I, Paper 6.2 of Session 6.
21-23 Oct 65, 1965, pp 1-10
P100207468-V
FTD-HT-67-408

Pneumatic Logic Elements and Associated Peripheral Devices, by H. Topfer, 19 pp. GERMAN, bk, Institut Fur Regelungs-und Steuerungstechnik Der Deutschen Akademie Der Wissenschaften, Deutsch-land; Institut Fur Automatisierung Und Kybernetik, Moskau. Papers 1.3 and 1.1 of Session I, Paper 6.2 of Session 6. 21-23 Oct 65, 1965, pp 1-17 PTD-HT-67-108 FTD-HT-67-408

Homogeneous Microelectronic Structures and New Principles for the Manufacture of Logical and Sequential Installations, by I. V. Prangischvili, E. V. Babicheva, GERMAN, bk, <u>Institut Fur Regelungs-Und</u> Steuerungstechnik Der Deutschen Akademie Der Wissenschaften, Deutschland; Institut Fur Automatisierung Und Kybernetik, Moskau, Papers 1.3 and 1.4 of Session I. Paper 6.2 of Session 6, 21-23 Oct 65, 1965, pp 1-19 P100207468-V FTD-HT-67-408

Production Programming in the Orianenburg Cold Rolling Mill by Means of an Electronic Computer, by D. Oheim. GERMAN, per, Neue Hutte, Vol 13, No 4, 1968, pp 193-198. *BISI 6596

Machine Computing VVB Director Views Cutlook, by Manfred Michalk, 10 pp. GERMAN, por, Statistische Praxis, Jun 1968, pr 323-326. JPRS 46,354

High Sensitivity Fluorimeter, by L. Csanky, 4 pp. HUNGARIAN, per, Peres Es Automatika, Vol 13, No 8, 1965, pp 240-241. Ploo240968-V FTD-HT-23-1022-67

Use and Mathematical Model of a Digital Strip Hot Rolling Mill, by L. Pasolini, ITALIAN, per, <u>Automasione e Automatismi</u>, No 10, Sept/Oct 1966, pp 21-35 BISI 5457 Computer for Automation of a Wide

MAR-6 Radio Specifications. JAPANESE, rpt, Incl to IR 1852004668. ACST J-4914 FSTC-HT-23-169-68

Electronic Analog Installation for Examining the Kinetics of Buclear Reactors, by T. Swierzawski, A. Puszer, 3 pp.
POLISH, per, Gliwice. Politechnika Slaska.
Zeszyty Naukowe. Energetyke, No 17, 1964,
pp 123-125. P100221668-V FTD-IIT-23-913-67

Statistical Identification of a Human-Operator Model in Control Systems Subject to Random Disturbances, by A. P. Firla. POLISH, per, <u>Pomiary Automatyka Kontrola</u>, No 11, 1967, pp 518-522. *FTD-HT-23-828-68

Speed and Voltage Control of Electrical Machines with the Aid of Thyrystors (Transistors), by W. Paszek, 7 pp
POLISH, per, Przeglad
Elektrotechniczny, No 8, 1965,
pp 285-289
Pl00202568-V FTD-HT-67-329

Encapsulating of REJ 1501 Transformers with Modified Epoxy Resin, by Slawomir Dulinicz, rollsh, per, irzeglad kolejowy ilektrotechniczny, vol 12, ho 11, 1965, pp 337-341. CESTI TT 67-56039

Computer and Automation Research Discussed, by Icana Cezar, 5 pp.
RUMANIA, np, hunca, 20 July 1968, pp 1, 5. JrKS 46302

Scientific Energy Conversion (Non-Propulsive)

Ways Sought to Reduce Electrification Costs, by D. Komarov, E. Khavich, 8 pp. RUSSIAN, per, <u>Ekonomika Stroitel*stva</u>, No 6, 1968, pp 48-52.
JPRS 46,247

Soviet Power Increases Unit Size, Consolidates, by V. G. Zhilin, A. M. Nekrasov, 20 pp. RUSSIAN, per, Elektricheskiye Stantsii, No 8, 1968, pp 14-22.
JPRS 46404

Computers Evaluate Fower Station Parameters, by D. G. Zhimerin, E. B. Akhundov, 13 pp. RUSSIAN, per, Elektricheskiye Stantsii, No 8, 1968, pp 29-34.

JPRS 46404

Increasing K-200-300 Turbine Efficiency, by T. F. Mikhayliki, N. V. Bugay, 5 pp. RUSSIAN, per, Energetik, No 6, 1968, pp 5-6. JPRS 46,247

Automation of Thermal Processes at Power Plants, by P. N. Manuylov, 6 pp. RUSSIAN, per, Energetik, July 1968, pp 1-3. JPRS 46276

Computation of Natural Frequencies of Vibrations of Francis Turbine Runners, by A. Ya. Aronson, 15 pp.
RUSSIAN, per, Energomashinostroyeniye, No 3, 1960, pp 8-12.
CFSTI TT 67-59018

Nethods of Designing Axial Compressors for Stationary Gas-Turbine Plants, by F. S. Bedoher, 8 pp. RUSSIAN, per, Energomashinostroveniye, No 3, 1964, pp 30-32. Plock40368-V FTD-HT-23-803-67

Auxiliary Equipment of Hydraulic Turbines, by N. K. Barkov, 11 pp.
HUSSIAN, per, Ehergomashinostroenie, No 3, 1965, pp 36-39.
CFSTI TT 67-59019

Properties of the Middle Surface of Blade of An Axial Hydraulic Turbine, by B. Ya. Kantor, 7 pp. RUSSIAN, per, Energomashinostroenie, No 3, 1965, pp 41-43. CFSTI TT 67-5001

Scientific
Energy Conversion (Non-Propulsive) (Contd)

Causes of Damage to 140 ABS, ATM. Boiler Super-heaters at 570°C, by V. F. Zlepko, M. M. Przhiyalkovskiy, 8 pp. RUSSIAN, per, Energomashinostroyeniye, May 1968, pp 7-8.
JPRS 46,247

Chronicle. In the Division of Physico-Technical Problems of Power Engineering, by P. P. Orlov, 13 pp.
RUSSIAN, per, AN SSSR. Izvestiya. Energetika i Transport, No 2, 1965, pp 151-157. P100230668 FTD_MT-67-61

Analysis of the Characteristics of a Single-Space Powerplant with a Thermo-electric Converter, by G. A. Varshavskiy, I. A. Rezgol', 10 pp.
RUSSIAN, per, AN SSSR. Izvestiya.
Energetika I Transport, No 1, 1967, pp 120-126
P100202368-V
FTD-HT-23-796-67

Investigation of Flow in Francis Hydraulic Turbines, by V. A. Kolychev, V. E. Lasenko, 12 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy Energetika, No 2, 1966, pp 89-96.
CFET TT 67-59022

Experimental Investigation of Cooling Air Flow through Channels Provided at the Rotor Roots of Gas Turbines, by Ye P. Dyban. RUSSIAN, per, IVUZ, Energetika, No 1, 1968, pp 63-69. *FTD-HT-23-858-68C

Selecting the Optimal Degree of Reaction of a Single-Stage Turbine, by D. A. Dekhovich. RUSSIAN, per, IVUZ, Emergetika, No 2, 1968, pp 52-56. *FTD-HT-23-875-68C

Development of Soviet Power Engineering, by L. Malent'yev, 5 pp. RUSSIAN, np. <u>Pravda</u>, 12 July 1968, p 2. JPRS 4626) Scientific Energy Conversion (Non-Propulsive) (Contd) Scientific Energy Conversion (Non-Propulsive) (Cont) Improvements in Power Engineering Services Urged, by V. Kuznetsov, 5 pp.
RUSSTAN, np. Sovetskaya Belorussiya, 25 Jul. 1968, p 2. JPRS 46,247

Problems in Advances of USSR heat engineering, by D. G. Zhimerin. 10 pp. RUSSIAN, per, Teploenergetika, No 8, 1968, pp 11-JPRS 46404

Thermal Fatigue in ET435, ET703, and ET835 Sheet Faterials, by V. N. Filipenko.
RUSSIAN, rpt, Vsesovusnove Nauchno-Tekhnicheskove Konstruktivnykh Elementov pri Vysokikh Temperaturakh, 4th, Kiev, Thermoprochnost Materialov i
Konstruktivnykh Elementov; Materialy Soveshchaniya
No 4, 1967, pp 366-369.
*FTD-HT-23-817-68

Effect of Operating Conditions on the Efficiency of Turbine Elades for Aircraft Gas Turboengines. by F. F. Khalimon, G. N. Tret'yechenko. RUSSIA, rpt, Vsescyusnoye Neuchno-tikhnicheskoye
RUSSIA, rpt, Vsescyusnoye Neuchno-tikhnicheskoye
RUSSIA, rpt, Vsescyusnoye Neuchno-tikhnicheskoye
RUSSIA, rpt, Vsescyusnoye Neuchnosti kiterialov
Ronstruktivnykh klementov pri Sysckikh TemperaTurakh, bth, Kiev, Temoprochnost' Haterialov i
Konstruktivnykh Klementov; Haterialy Soveshohaniva
FTD-HT-67-413
*FTD-HT-23-817-68

Transmission of Electric Power Without Conductors, by Ying Chiso. CHINESE, per, K'o Haush Hua Pao, No 6, 1966, p 243. *FTD-HT-23-839-68C

Boundary Layer on Radial Rotor Blades, by S. Apanasevica. by S. Apanasevicz.
POLISH, Coll, Lodz. Politechnika. Katedra
Cieplynych Massyn Przeplywowych. Cieplne
Haszyny Przeplywowe, No 63/64, 1967, Symposjon
Sprezarkowy, Lodz, 16-18, KI, 1967, Referaty,
Przyczynki, Komunikaty, No 1, pp 11-18.

**PTD-HT-23-871-600 Flow Losses Across Radial Rotors and the Optimal Number of Blades, by E. Tuliszka. POLISH, coll. Lodz. Politechnika. Katedra Cieplnych Maszyn Przeplywowych, Cieplne Masznyn Przeplywowe, No 63/64, 1967, Symposjon Spresarkowy, Lodz, 16-18, XI, 1967, Referaty, Przyczynki, Komunikaty, No 1, pp 77-83. *FTD-HT-23-871-68C

Prognosis of Electric Power Use Developed, by L. Curelaru, N. Bordeianu, 8 pp. RUMANIAN, per, Revista de Statistica, No 5, May 1968, pp 64-69. JPRS 46,325

Extrusion of Tool Steel Without Press Residues, by V. P. Severdenko, V. S. Muras, 4 pp. RUSSIAN, per, AN BSSR. Vestsi. Seryya Pisika-Tekhnichnykh Navuk, No 3, 1965,

Antiwear Properties of Steel in the Presence of Polymer Powders, by G. V. Vinogradov, Yu. Ya Podol'skiy, 9 pp.
RUSSIAN, per, AN SSSR. Institut
Mashinovedeniya Treniye I Isnos V
Mashinakh, No 19, 1964, pp 127-137
P100202168-V PTD-HT-23-502-67

Establishing the Techniques of Pressure Working of New Hetals and Alloys, by V. G. Ocipov, B. V. Yegorov, 11 pp. RUSSIAN, rpt, AN SSSR. Institut Metallurgia. Repryachennove Sostovanive i Plantichment' Deformatiovania Metalloy, 1966, pp 143-151. PRODZAJESE.V PTD-HT-24-367-67

Interaction Between the Metal and the Mold During the Casting of Titanium, by V. S. Pugin, M. A. Maurakh.
RUSSIAN, per, AN SSSR. Institute Metallurgiy.
Titan i Yego Splavy, 1961, 16 pp.
P100253068-V
FTD-MT-24-357-67

Phase Equilibrium Diagram of a Chromium-Niobium-Molybdenum System, by V. N. Svechnikov, G. F. Kobzenko, 15 pp.
RUSSIAN, bk, AN UKRSSR. "Fazovyve Prevrashcheniya V Metallakh I Splavakh", 1965, pp 147-158.
Pl00230168-V
FTD-HT-23-520-67

Hafnium-Chromium Structural Diagram, by V. N. Svechnikov, A. K. Shurin, 9 pp.
RUSSIAN, bk, AN UKRSSR. "Fazovyye Prevrashcheniya V Metallakh I Splavakh", 1965, pp 159-162.
P100230168-V
FTD-HT-23-520-67

Measuring of Thermal Conductivity of Metals at High Temperatures, by V. E. Ivanov. RUSSIAN, per, Eksp. Tekh. Metody Vysokotemp. Izmer. AN SSSR, Inst. Met, 1966, pp 30-37. *FTD-NT-24-354-68

Explosive Hardening of a High In Steel, by A. A. Deribas, RUSSIAN, per, Fisika Goreniya i Veryva, No 3, 1966, pp 87-94.
*BISI 6597

Effect of Certain Factors of Programmed Loading on the Service Life of an Aluminum Alloy Exposed to an Aggressive Medium, by A. V. Karlashov, A. D. Gnatyuk, 7 pp RUSSIAN, per, Fisiko-Khimicheskaya Mekhanika Materialov, Vol 2, No 3, 1966, pp 285-290 P100164868-V FTD-MT-24-311-67

Scientific Materials (Contd)

Machanism of the Effect of Phosphorous and Molybderum Impurities on Temper Brittleness of Steel, by V. I. Arkharov. RUSSIAM, per, Fisika Metallov i Metallovedeniye, Vol 2, Issue 1, 1956, pp 57-65. ACSI J-5119 FSTC HT-23-189-68

Baushinger Effect in Low-Carbon Steel During a Pure Shear, by G. B. Talypov. RUSSIAN, per, <u>Issled Uprugosti Flast</u>, No 5, 1966, pp 246-248. *FTD-HT-23-808-68

Development of Deformation in Iron Subjected to Cyclic Loading at High Temperatures, by M. G. Lozinskiy.

NJSSIAN, per, AN SSSR, Izvestiya. Metally,
No 1, 1968, pp 142-147.

*FTD-MT-24-351-68

Laws of the Reduction of Iron From Ore Melts by Hydrogen, by V. V. Baidov. RUSSIAN, per, Izv VUZ Cher Net, No 1, 1964, pp 13-19. BISI 6413

On the Possibility of Keeping Hlast-Furnace Elowing Conditions at the Optimum Level, by S. A. Vorob'ev, E. G. Mironov. RUSSIAN, per, <u>Isvest VIZ-Chern Met</u>, Vol 7, No 6, 1964, pp 191-198.

The Existence of Mitrogen in Molten Iron-Free Slags, by S. K. Chuchmarev. RUSSIAN, per, <u>Isv VUZ Cher Net</u>, No 2, 1965, pp 5-9. HISI 6449

Effect of New Methods of Remelting and of Argon Purging on the Properties of EP-65 Stainless Steel, by P. I. Melikhov, A. V. Stepanov, 8 pp. RUSSIAN, per, Isvestiya Vysshikh Uchebnykh Zavedeniy. Chernaya Metallurgiya, No 9, 1965, pp 80-85 Pl00206666-V FTD-HT-67-201

Determination of the Temperature Field During Deformation, by A. A. Karakina. RUSSIAN, per, Izv VUZ Cher Met, No 8, 1966, pp 122-127.
*BISI 6630

Establishing the Gaso-Dynamic Resistance of the Individual Layers of a Sintering Burden, by V. I. Korotich, V. P. Puzanov RUSSIAN, per, Izv. VUZ Chern. Met., No 6, 1967, pp 33-37 BISI 6041

Change in the Structure of Fracture and in the Impact Strength of 3Khl3N7S2 Steel owing to Overheating During Its Hot Working and Heat Treatment, by I. Ye. Kontorovich.
RUSSIAN, per, IVUZ. Chernaya Metallurgiya,
No 6, 1967, pp 113-116.
**FTD-HT-23-859-68C

Phase Composition of Sinters, by N. I. Gol'dshtein RUSSIAN, per, Izv VUZ Cher Met, No 6, 1968, pp 35-40.
*HB 7517

Water Modelling of the Filling of Radial Rectangular-Section (continuous Casting) Moulds, by Yu. N. Yakovlev.
RUSSIAN, per, Isv VUZ Cher Mat, No 6, 1968, pp 52-56.
**HB 7515

On the Determination of the Strength of Tool Steels, by Yu. E. Sedov. RUSSIAN, per, <u>Isv. VUZ Cher. Mat.</u>, No 7, 1968, pp 117-121. *BISI HB 7531

Stability and Critical Parameters of D.C. Arcs, by Fedchenko, Il'anko, RUSSIAN, per, <u>Izv VIZ Energetica</u>, Vol 11, Nov 1967, pp 14-20.
*HISI 6613

The Effect of Some Additives on the Thermal Decomposition of Armonium Perchlorate, by A. A. Shidlovskiy, L. F. Shmagin, 8 pp.
RUSSIAN, per, <u>Investiva Vysshikh Uchebrykh</u>
Zavedoniy. <u>Khimiya i Ehimicheskaya Tekhnologiya</u>,
Vol 8, No 4, 1965, pp 533-538. Pl00245668-V
FTD-NT-24-359-67

Scientific
Materials (Contd)

Properties of Low-Nickel and Non-Nickel Carburized Grades of Steel Applicable for Heavy-Loaded Gear Wheels, by V. P. Antropov RUSSIAN, per, IVUZ. Mashinostr. No 7, 1966, pp 119-125.
*FTD-HT-23-874-68C

Effect of Heat Treatment on the Texture of Titanium Alloys Having Electrodeposited Chromium and Nickel Coatings, by E. I. Kontorovich.

RUSSIAN, per, IVUZ. Tsvet Met, Vol 9, No 5, 1966, pp 124-128.

*FTD-HT-23-860-68C

Temperatures Occurring in Drop Forging Dies in Forging Liquid Steel, by N. T. Deordiev. RUSSIAN, per, <u>Kuznechno-Shtampov</u>, 1965, pp 11-13.

The Use of Molten Glass for Heating Steel Blanks, by I. V. Anisimova.
RUSSIAN, per, Kuznechno-Shtampovochnoye
Proizvodstvo, No 2, 1967, pp 37-40.
**FTD-MT-24-345-68

Research into the Protective Properties of Canning Lacquers by Electro-Chemical Methods, by I. L. Rosenfeld.
RUSSIAN, per, Lak Mat i Ikh Prim, No 5, 1967, pp 76-80.
RISI 6437

Adhesion Interaction in a Vacuum of Refractory Metals, Metal-Like Compounds and Hard Alloys, by A. P. Semenov, V. V. Posdnyakov, 14 pp. RUSSIAN, per, Mashinovodeniye, No 1, 1967, pp 116-127. P100243968-V

Effect of Stresses on Steady-State Temperature of Self-Heating of Flastics During Cyclic Loading, by S. B. Ratner.
RUSSIAN, per, Mekhanika Folimerov, No 1, 1967, pp 179-182.
*FTD-HT-23-813-68

Study of Hechanical and Magnetic Properties of Iron-Nickel-Aluminum Permanent-Magnet Alloys, by A. A. Shekalov, Ya. I. Shtreis.
RUSSIAN, per, <u>Hetalloyedenie i Chrabotka Netallo</u>v, No 4, Apr 1958, pp 29-38.
HE 4185

Conference on the Physics and Mechanics of the Strength and Failure of Metals, by V. M. Finkel'. RUSSIAN, per, Metallovedeniye i Termicheskaya Obrabotka Metallov, No 3, 1968, pp 76-79.
*FTD-II-23-812-68

The Bottom and Top Pouring of Steel, by D. A. Smolyarenko.
RUSSIAN, per, Metallurg i Gornorudn Promyshlennost!, No 2, 1968, pp 23-27.
HB 7526

Selection of Die Steels for HighSpeed Metal-Forming Tools, by
Yu. P. Sogrishin, M. A. Gaponov,
8 pp
RUSSIAN, per, (Nauchnyye Trudy)
Moscow. Eksperimental nyy NauchnoIssledovatel skiy Institut KuznechnoPressovogo Mashinostroyeniya, No 13,
1966, pp 104-114
P100207568-V
FTD-MT-24-190-67

Nedoymium Glass Inclusions, by V. S. Doladugins. RUSSIAN, per, Optiko-Nekhanicheskaya Promyshlennost!, No 2, 1968, pp 38-41.
*FTD-HT-23-810-68

Influence of Composition on the Wear Resistance of a Plastic, by S. B. Ratner.
RUSSIAN, per, <u>Plasticheskiye Massy</u>, No 1, 1967, pp 64-67.
*FTD-HT-23-862-68C

New Heat-Resistant Ferromagnetic Plastics, by L. V. Pevzner, K. N. Haryakina, 5 pp. RUSSIAN, per, Plasticheskiye Massy, Moscow, No 7, August 1968, pp 27-28. JPRS 46453

Antifriction Properties of Boron Nitride During Dry Friction in Gaseous Media and at Low Temperatures, by V. F. Afanas'yev, D. M. Karpinos, 5 pp. RUSSIAN, per, Poroshkovaya Metallurgiya, No 7, 1966, pp 49-52 PTD-HT-67-348 Scientific Materials (Contd)

On the Equations of Coupling Between Stresses and Strains in Glass-Fiber-Reinforced Plastics, by G. A. Van Fo Fy, 10 pp.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 1, No 2, 1965, pp 110-115
P100202468-V
FTD-HT-67-342

Applications of Aluminum Alloys in Building Structures (Selected Sections) by T. N. Morakhevskiy, 27 pp.
RUSSIAN, bk, Primeneniye Alyuminnevykh Splavov V Stroitel'nykh Konstruktsiyakh, Akademiya Stroitel'stva I Arkhitektury SSSR. Moskva. 1959, pp 11-48
P100204768-V
FTD-HT-67-346

More Armenian Tufa, Cinder, Fumice, and Ferlite, by M. Oganesyan, Z. Atsagortsyan, 5 pp.
RUSSIAN, per, Fromyshlennost' Armenii, No 6, 1968, pp 11-13.
JPRS 46407

Heat-Resistant Volcanic-Cinder Light Concretes, by V. Saakyan, A. Akopyan, 5 pp. RUSSIAN, per, Promyshlennost' Armenii, No 6, 1968, pp 50-52. JPRS 46407

Effect of Certain Elements on the Properties of Steel in Process of Crystallizing, by C. D. Moldavskii, A. P. Pronov.
RUSSIAN, bk, Slitok i Svoistva Stali, 1961, pp 106-118.
HB 7527

Special Features of Crystallization of Large Steel Ingots with Electrically Heated Hot Tops, by V. A. Malyshev. RUSSIAN, bk. Slitck i Svoistva Stali. 1961, pp 170-178.

Resistance of Welded Joints Against the Formation of Cold Cracking, by R. A. Kozlov, 9 pp.
RUSSIAN, per, Svarochnoye proizvodstvo, Moscow, No 7, July 1968, pp 1-3.
JPRS 46511

Scientific Materials (Contd)

On the Effect of Chromium on the Kinetics of the Oxidation of Niobium, by R. F. Voytovich, 6 pp. RUSSIAN, per, Ukrainskiy Khimicheskiy Zhurnal, Vol 32, No 5, 1966, pp 445-448 2100201568-V FTD-HT-67-406

Mechanism of Hardening of Rail Steel by Inoculation, by L. I. Tushinskii.

RUSSIAN, per, Uprochnenie Rel'sovoi Stali, 1966, pp 3-16.

*BISI 6649

Fr Fibrous Filtering raterials, by I. V. retryanov B. I. Aozlov, 76 pp. RUSSIAN, bk, Voloknistyve Fil'truyushchiye Materialy Fr, 1968, 78 pp. Jrks 46419

The Fatigue of Alloys at High Temperatures Viewed Statistically, by S. V. Sorensen. RUSSIAN, per, Vsb. Termoprochnost Materielov i Konstruikts. Elementov, 1965, pp 137-146. *FTD-MT-24-355-68

Investigation of Zirconium Dioxide Erosion in a High-Temperature Gas Flow, by R. I. Abraytis. RUSSIAN, rpt, <u>Vsesoyuznoye Nauchno-Tekhnicheskoye Soveshchaniye po Voprosam Prochnosti Materialov i Konstruktivnykh Elementov pri Vysokikh Temperaturakh, 4th Kiev. Termoprochnost' Materialov i Konstruktivnykh Elementov; Materialy Soveshchaniya No 4, 1967, pp 470-476.
*FTD-HT-23-817-68</u>

Unloading and Warming Non-Matallic Building Materials Under Winter Conditions, by A. P. Valadimirov, E. Tu. Braynin.
RUSSIAN, bk, Vygruska i Fodograv Nerudnykh
Stroitel'nykh Materialov v Zimnikh Usloviyakh.
ACSI J-4788
FSTC HT-23-25-68

High-Temperature Inorganic Coatings for Modern Engineering, by A. M. Cherepanov, 23 pp.

RUSSIAN, per, Vesesyumove Khimicheskove Obshchestvo, Zhurmal, Vol 10, No 5, 1965, pp 532-539 P100200068-V FTD-HT-23-497-67

A Device for Measurement of the Radial Pressures of a Piston Ring on a Cylinder Wall, by M. S. Rozovskiy, O. P. Fedosov, 5 pp. HUSSIAN, rpt, Patent 168924 (801378/26-10) Class 42k, 25, pp 1-4. P100226568-V FTD-HT-67-122

A Method of Grinding and Finishing Diamond Cones, by N. F. Pronkin, A. I. Solovyev, 1 p. RUSSIAN, Patent 172,647. P100222968 FTD-HT-23-1111-67

Method of Obtaining Polyimides, by S. V. Vinogradova, V. V. Korshak, 1 p. RUSSIAN, Patent No 183363 (850498/23_5) Class 39c, 10. Pl00229168 FTD-HT-23-1015-67

Method of Rolling Composite Aluminum-Magnesium Sheet, by L. I. Stoklitsiy, Yu. A. Vorob'yev, RUSSIAN, Patent No 198114, Class 49. *FTD-HT-23-801-68

The Strain Aging of Oxygen in Molybdenum, by Ying-Liang Ma, Chu-I Sung, ll pp. CHINESE, per, Chin Shu Hsueh Pao (Acta Metallurgica Sinica), Vol 8, No 3, 1965, pp 332-338 P100207168-V FTD-HT-67-206

Tough Enemies Against the Strength of Aircraft. Fatigue and Creep of Metals, by Jen Tso, 6 pp. CHINESE, per, Hang K'ung Chih Shih, Vol 2, No 10, 1965, pp 14-15 P100187768 FTD-HT-67-289

New Cables, by Tzu-tu Lung, 6 pp. CHINESE, per, K'o Hsueh Hua Pao, No 6, 1965, pp 182-183. Pl00217768-V FTD-HT-23-1006-67

Worksbility of Stainless Chrome-Nickel Steels Stabilized by Titanium, by J. Jezek, J. Raineshova, 8 pp. CZECH, per, Hutnicke Listy, No 2, 1966, pp 108-112. P100226068-V FTD-HT-23-557-67

The Effect of Molybdenum on the Heat-Resistance of CrMoV Steels with a Low Carbon Content, by T. Prnka, 10 pp.
CZECH, per, Hutnicke Listy, No 4, 1966, pp 265-269.
Pl00218068-V
FTD-HT-23-628-67

Kinetics of Desulphurization in the Electroslag Remelting Process, by J. Hlineny, Z. Buzek CZECH, per, Hutn. Listy, Vol 21, No 8, 1966, pp 524-532 BISI 5641

Rolling Stainless Steel in Elooming Hills, by M. Zidek, Z. Zamyslovsky. CZECH, per, Hutnik, Vol 18, No 2, 1968, pp 76-80.
*BISI 6584

Discussion on Petroleum, Tin and Uranium, by Eva Georgiova, 5 pp. CZECH, per, Reporter, Prague, 14-21 August 1968, pp 25-26.

JPRS46570

Reducing Machine Noise Through the Wider Application of Plastics, by J. Rensdorf, 10 pp CZECH, per, Strojirenstvi, Vol 16, No 1, 1966, pp 45-49 p100202868-V FTD-HT-23-865-67

The Influence of Welding on Corrosion-Resistant Natals, by F. J. P. Hubert.
DUTCH, per, <u>Lastechniek</u>, Vol 33, 1967, pp 8-15
BISI 6067

Scientific Materials (Contd)

Tandum Process Test with High-Phosphorous Bearing Iron at the Open-Hearth Steelplant at Hayange, by A. Bassetti.

FRENCH, rpt, Association Technique de la Siderurgie Francaise, (Paris), 14 Jan 1966, pp 13-20.

*BISI 6602

Application of Forgeability Tests to Rolling, by J. Bellot, N. Hugo. FRENCH, per, C.D.S. Circ, No 9, 1967, pp 2063-2091. *HISI 6607

Metallurgical Characteristics of Blast Furnace Slag, by R. Jon. FRENCH, rpt, <u>C.D.S. Circ</u>, Oct 1967, pp 2217-2238. *BISI 6606

The Differdange Works of the Societe Hadir: Comparison of Working Results of a Blast Furnace According to Whether it is Fed With a Band Sinter or a Sinter From a Rotary Furnace, by A. Faber.
FRENCH, per, C.D.S. Circ., No 11, 1967, pp 2479-2491.
BISI 6286

Motallographic Study of Break-Away During the Oxidation of Zirconium, by L. H. Keys, G. Beranger, et al., 26 pp. FRENCH, rpt., Center Metallurgical Research of the School of Mines in Paris, 1967.

AEC-WAPD-Tr-0092 P911256568-V

L.D - Steel Quality Control.
FRENCH, per, Cookerill - Cugree - Providence,
Oct 1967, pp 8-14.
*EISI 6644

A Mechanism of Ductile Fracture of Metals, by J. Plateua, J. Gurland FRENCH, per, Comptes Rend., Vol 256, 28 Jan 1963, pp 1109-1112
BISI 5545

quantitive Aspects of the Electron Probe Microanalysis, by J. Philibert.
FRENCH, per, <u>Journal de Microacopie</u>, Vol 6, Dec 1967, pp 889-915.
*BISI 6627

Description of the Techniques Leading to the Examination, Identification and Analysis of the Very Fine Precipitated Phases in Metallic Materials, by R. Campos-Soares.
FRENCH, per, Journal de Microscopie, Vol 7, Jan 1968, pp 17-37.
*BISI 6626

The Role of Niobium in Improving the Machanical Properties of Weldable Constructional Steels, by P. Mandry.
FRENCH, per, Mat.-Corros. Ind., Vol 42, 1967, pp 389-411; 433-462.
**BISI 6657

The Use of Auxiliary ruels in the Blast Furnace, by P. Dancoisne, J. Michard. FRANCH, rpt, Paper D.1 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966, pp 425-427.
BISI 5481

Simple Device For Quantitative Metallography, by M. Drouzy.
FRENCH, per, pp 481-486.
**BISI 6647

Influence of the Principal Grate Sintering Parameters on the Operational Characteristics of the Rombas Works (Sidelor), by P. Bece. FRENCH, per, Rev. Ind. Minerale, Vol 49, 1967, pp 73-98.
BISI 5956

The Relationship Between the Output of Ball Mills and the Amount of Faterials Fed, by I. Bertume. FRENCH, per, Rev Ind Minerale, Vol 49, Oct 1967, pp 740-744.
HISI 6410

Water-Distribution, Treatment, Recycling, by P. Guyard. FRENCH, per, Rev Net. Vol 60, Nov 1963, pp 1089-1097. *BISI 6601

The Influence of Chemical Composition and Hot Rolling Conditions on the Tendency to Zoning of 17% Cr Steels, by E. Pouillard, B. Osdoit. FRENCH, per, Rev. Mat., Vol 63, 1966, pp 679-690. BISI 5757

Scientific
Materials (Contd)

Enthalpy of Two Blast Furnace Slags, by A. Ferrier. FRENCH, per, Rev. Mat., Vol 64, 1967, pp 15-19. BISI 5960

Infra-Red Gas Analysers, by H. Pierrard. FRENCH, per, Rev Met. Vol 64, Feb 1967, pp 119-125. *BISI 6634

Controlled Rolling - A Factor in the Development of Structural Steels, by J. H. van Der Veen. FRENCH, per, Rev Liet, Vol 65, No 1, 1968, pp 1-11.
*BISI 6609

Investigations on Effervescence in the Solidification of Steel, by P. Rocquet. FRENCH, per, Rev Met. Vol 65, Apr 1968, pp 257-268.
*BISI 6645

Effect of Non-Metallic Inclusions on Certain Mechanical Properties of Steel, by A. Buch, J. Chodorowski.

FRENCH, per, Rev Met, Vol 65, Apr 1968, pp 269-276.
*HISI 6637

Influence of Tellurium on the Forgeability of Structural Steels in the As-Cast and As-Worked Conditions, by G. Odin.
FRENCH, per, Rev. Met., Vol 65, 1968, pp 363-376.
**BISI 6668

Alpha- and Gamma-Producing Action of the Principal Addition Elements in Nickel-Chromium Stainless Steels Derived From the 18-10 Type, by P. Guiraldenq. FRENCH, per, Rev. Nat. Mem. Sci., Vol 1967, pp 907-939.
RISI 6337

On the Microfractographic Characteristics of Various Brittle Fractures Connected with the Tempering of Steels by E. Mencarelli, H. da Leiris FRENCH, per Rev. Met. Hem Sci., Vol 64, Feb 1967, pp 111-124 BISI 5701

Application of an Equivalence Between Time and Temperature to the Study of Case Hardening and Decarburisation (with Discussion), by Fh. Haynier. FREECH, per, Rev Est Liem Sci. Vol 64, Nar 1967, pp 203-212.
BISI 6397

Improvements in Valve Bags Made of Plastic Material, by Laroche Frenes, 8 pp. FRENCH, ratent No 1,077,360. Dept of Commerce ratent Office

Measurement of the Electromotive Force at 1500°C and X-Ray Investigations in the Iron-Oxyd-Aluminum-Oxyd System, by W. A. Fischer, A. Hoffmann. GERMAN, per, Arch Elsenh, Vol 26, Jan 1955, pp 43-50.
*HISI 6594

Reactions Between Iron-Manganese Melts and Molten Aluminates, by W. Celsen, G. Heynert. GERMAN, per, Arch. Eisenh., Vol 26, 1955, pp 567-575.
BISI 6069

Determination of the Size Distribution of Pores in Refractory Materials and Glass Filters, Part II, by L. Zagar.

GERMAN, per, Archiv Eisenhuttenwesen, Vol 27, No 10, 1956, pp 657-663.

HB 7486

The Crystallographic Properties of Deformation Twins in Martensite, by G. Krauss, W. Pitsch GERMAN, per, Arch. Eisenh., Vol 35, July 1964, pp 667-675
BISI 5537

Low-Stress Reheating of Large Workpieces, by G. Woelk GERMAN, per, Arch. Eisenh., Vol 37, Oct 1966, pp 795-803 BISI 5601

Investigations on the Enamel Adhesion on Steel Sheet, by H. E. Buhler, L. Leontaritis. GERMAN, per, Arch Elsenh, Vol 38, Aug 1967, pp 657-661.
**HISI 6595

Scientific
Materials (Contd)

Viscosity Measurements of Slags, by H. J. Langhaumer, H. G. Geck. GERMAN, per, Arch Misenh, Vol 38, Sep 1967, pp 691-699. BISI 6411

Calculation of the Time Dependent Temperature of Hot Ingot Surfaces During the Time of Contact Between Ingot and Roll, by H. Preisendanz. GERMAN, per, Arch Elsenh, Vol 38, Dec 1967, pp 905-913.

BISI 6280

Influence of Carbon, Nitrogen and Boron on the Frecipitation Behaviour of an Austenitic Steel with About 16% Cr. 2% Mo. 16% Ni and Niobium, by H. Gerlack, E. Schmidtmann.
GERMAN, per, Arch Eisenh, Vol 39, Feb 1968, pp 139-149.
BISI 6450

Smelting Conditions of Ores, Sinters and Pellets Under Simulated Blast Furnace Conditions, by K. D. Haverkamp. GERMAN, per, Arch. Eisenh., Vol 39, May 1968, pp 319-327. #BISI 6673

Rolling Force Torque and Spread for Hot Rolling in the Speed Range 5-60 m/s, by G. Jackel. GERHAN, per, A.S.G. Mitt. Vol 2, No 4, 1965, pp 140-161.
BISI 5639

Basic Equations for Tube Bending and Shaping, by G. Ditges.
GERMAN, per, Bander Bleche, Vol 8, 1967, pp 380-390.
*BISI 6659

Production of Bent Tubes From Spirally Welded Tubes by Cold Bending, by F. O. Koch. ŒRMAN, Bander Bleche, Vol 8, No 12, 1967, pp 822-831. ÆBISI 6674

Ultrasonic Vibrations in Deformation Processes, by G. Gentzsch. GERMAN, per, Bander Bleche, Vol 9, 1968, pp 354-363. HBISI 6671

Determination of Oxygen Content in Steel by Hot Extraction, by W. Schwarz.
GERMAN, per, Berg-Hutten. Monatch, Vol 113, 1968, pp 1-10.
**BISI 6676

Possibility of Improving Hot-Ductility of Alloy Steels, by G. Kuhnelt.

GERMAN, per, Berg Hutten Monatsh, Vol 113, No 3, 1968, pp 114-124.

*HISI 6598

Measures to Frevent the Dendritic Solidification of High-Speed Steel, by M. Petz, W. Schlager. GERMAN, per, Berg- und Hutterm Monatshefte. Vol 113, No 3, 1968, pp 135-141. HB 7472

Some Problems in the Use of Heat Resisting Sheet Particularly in the Enamelling Industry, by T. Hesse.
GERMAN, per, Elech, Vol 12, Oct 1965, pp 570-577.
BISI 5890

Computer Controlled Continuous Rolling Mill.by A. Romascan.
GERMAN, per, <u>Blech</u>, Vol 14, Dec 1967, pp RP 5/2 to 5/7.
*BISI 6636

Vacuums for Lifting and Transportation of Sheet and Flate, by K. Ziesling.

GERMAN, per, <u>Blech</u>, 15 May 1968, pp 270-274.
*EISI 6641

Results of the High Temperature Irradiation of Graphite and Pyrolytic Carbon in the Doureay Fast Reactor, Scotland, by W. Delle, H. J. Stocker, 8 pp.
GERMAN, Paper, Conf. of Workers Comm. on Carbon of the German Ceramic Soc. Oct 13, 1967, in Basel, Switzerland. P911253668-V AEC-ORML-Tr-1968

Deep Beams, by F. Leonhardt, R. Walther, 291 pp. GERMAN, per, Deutscher Ausschuss Fur Stahlbeton. Vertrieb Durch Verlag Von Wilhelm Ernst & Sohn, No 178, 1965, pp 1-161. Pl00220068-V FTD-HT-67-003-05

Scientific Materials (Contd)

Influence of Carbide-Formation on the Development of Hardness and Temper Stability in High Speed Steel S 12-1-4 = EV4 (SA 500), by E. Kunze, H. Brandis.

GERMAN, per, DEW-Techn Ber, Vol 4, Apr 1964, pp 75-79.

BISI 6424

Mechanical Properties of High Speed Steel and Peculiarities of Its Measurement, by W. Schmidt. GERMAN, per, <u>DEW-Techn Ber</u>, Vol 4, Apr 1964, pp 92-97.
BISI 6420

Present State of the Froduction of Cold Wide Strip from Stainless Steel at the Deutsche Edelstahlwerke AG, by K. Tesche.
GERWAN, per, DEW-Techn Ber, Vol 7, No 2, 1967, pp 40-48.
*HISI 6621

Experience with the Three-Metre Grating Polychromator and the Vacuum Fluorite Polychromator in Spectrometry of Steels, by K. Gaulrapp, G. Schmutzler GERMAN, per, Emmissionspektroskopie, 1964, pp 292-305
BISI 5386

Report on the Investigation of the Flow and Pressure Conditions of Bunkered Screened Material in Relation to the Type of Bunker, by W. Reisner. GERMAN, rpt, Fakultat fur Bergbau und Huttenwesen, 17 Feb 1961, p 17. **BISI 6583

The Influence of Small Rates of Deformation on the Resistance of Deformation of Steels with Various Alloy Contents and of Non-Ferrous Netals at Hot-Working Temperatures, by O. Schulte. GERMAN, per, Forschungsber Nordrhein-Westfalen, No 1190, 1966, 92 pp. **EISI 6629

Natural Gas in Heating and Heat-Treatment Furnaces, by T. Schmidt. GERMAN, per, Gaswarme International, Vol 16, Apr 1967, pp 174-179. BISI 6044

Use of Natural Gas in the Steel Industry, by H. Weineck.
GERMAN, per, Gaswarme International, Vol 16, Apr 1967, pp 180-189.
BIS1 6045

Some New Types of High-Temperature Air Heaters for Non-Oxidising Industrial Furnaces, by B. Pokorny.
GERMAN, per, Gas Warme International, Vol 17, Jan 1968, pp 18-23.
BISI 6543

Austenitic Cast Iron.
GERMAN, per, German Specification DIN 1694, 1966, pp 8.
BISI 5783

The Hydraulic Properties of Elast Furnace Slag, by G. Mussgnug.

GERMAN, per, GHH-Konzern, Fitt Forsch Anst,
July 1938, pp 153-168.

*BISI 6585

Application of the Tatur-Shrinkage-Test for Works Control of Brass Die-Cast Welts, by R. Schlatter.
GERMAN, per, Giesserei, Vol 51, 14 May 1964, pp 282-289.
*RISI 6611

Melting of Stainless Steels in a Vacuum by W. Stawicky GERMAN, per, <u>Glesserei</u>, Vol 53, lip April 1966, pp 229-237 BISI 5530

On the Formation of Pinholes in Spheroidal Graphite Cast Iron, by K. H. Tiegel. GERMAN, per, Giesserei, Vol 55, No 8, 1968, pp 169-174.

Spheroidal Graphite Cast Steel, by F. Henke. GERNAN, per, Giesserei-Presis, No 4, 1967, pp 53-57. BISI 5594

Mass Production of Steelwork Moulds, by L. Kovari. GERNAN, per, Glessereitechnik, Vol 11, Nov 1965, pp 323-328.
BISI 5562

Scientific Materials (Contd)

Use of Spirally Welded Large Diameter Fipes for Foundations in harbour Construction and Underground Structures, by O. Boke.
GERMAN, per, Hansa Messeheft, Apr 1964, pp 765-769.
BISI 5549

Mechanism of Growth and Structural Constitution of the Iron-Boride Layer and Diffusion Zone Froduced when Boronizing Iron in the Presence of Carbon, Part II, by H. Kunst, C. Schaaber. GERMAN, per, <u>Harterei-Technische Mittellungen</u>, Vol 22, No 1, 1967, pp 12-25.

HB 7122-II

Development of a Mould-Killed Special Deep-Drawing Quality Steel for Sheet and Cold Strip at Hoesch AG Steelworks, by H. J. Lehmann. GERMAN, per, Hoesch Ber, Vol 1, No 4, 1966, pp 16-24. BISI 6310

Effect of Continuous Casting on Machine Flame Scarfing, by A. Pfeuffer. GERMAN, per, Klepzig Fachber, Vol 73, Nov 1965, pp 519-523.
BISI 5108

The Result of Metal Cutting Research on the Composition of Sintered Carbides and Their Allocation to Metal Cutting Work on the Basis of the ISO Allocation System, by H. Beutel. GERWAN, per, Der Maschinenmarkt, Vol 66, No 19, 1966, pp 35-41.
BISI 6422

Ultrasonic Measurement of Hardening Depth of Steel Rolls, by J. Koppelman. GERMAN, per, <u>Material Drufung</u>, Vol 9, Nov 1967, pp 401-405. *BISI 6570

Investigations on the Use of Ultrasonic Attenuation Measurements for Distinguishing Various Microstructures of 42 CrMo4 Steel, by J. Pirs. GERMAN, per, Material prufung, Vol 10, No 2, 1968, pp 43-49.
*BISI 6590

Large-Scale, Industrial Deposition of Protective Layers on to Steel Strip Using Vacuum Evaporation, by W. Reichelt.

GERMAN, per, Metalloberflache, Vol 20, 1966, pp 174-178.

BISI 5886

The Influence of the Nature of Water On Cavitation and Corrosion Damage Undergone by Materials, by R. Schulmeister GERMAN, per, Metalloberflache, Vol 21, No 3, 1967, pp 68-73 BISI 5736

Thermometric Determination of Impurities in Mistals, by I. Sajo, B. Sipos. GERMAN, per, Mikrochim Acta, No 3, 1967, pp 248-BISI 5993

Hydraulic Descaling Plant for a Hot Strip Mill, by O. Hennig. GERMAN, per, Neue Hutte, Vol 9, No 6, 1964, pp 361-367. *BISI 6656

Fundamental Studies of Materials for Semi-Hot Extrusion, by G. Fritsch, R. Siegel. GERMAN, rpt, Neue Hutte, 11 July 1966, pp 396-401. *BISI 6631

Trends in the Development of High Tensile, Weldable, Structural Steels. Alloying of Structural Steels With Nb, V, Ti, Zr, etc., by F. Stadler GERMAN, per, Neue Hutte, Vol 11, Oct 1966, pp 606-608
BISI 6231

Contribution to the Manufacture of Cold Tough Structural Steels for Use at a Temperature of -65°C, by H. Loscher. GERMAN, per, Neue Hutte, Vol 12, No 1, 1967, pp 6-12. BISI 5580

Weldable, Austenitic Materials for Use at Temperatures between 500 and 700°C, by I. Class. GERMAN, pen, Neue Hutte, Vol 12, 1967, pp 102-111.

Scientific Materials (Contd)

The Burstlein/Longwy-Sovaco Process for the Selective and Petrographic Preparation of Coal for Coking, by E. Burstlein. GERLAN, rpt, Preprint B.21 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966, pp 276-HISI 5477

Investigation of Coke Reactivity Under Blast Furnace Conditions, by H. Schenck, W. Wenzel GERMAN, rpt, Paper Cl presented at the International Congress Charleroi on 'Coke in Iron and Steel', 19-22 Sept 1966, pp 299-303 BISI 5503

Reactivity of Reduction Coke in Blast Furnaces, by B. Marincek GERMAN, rpt, Paper C2 presented at the International Congress Charleroi on Coke and Iron and Steel', 19-22 Sept 1966, pp 304-310 BISI 5504

The Effect of Coke Particle Size on Blast Furnace Operating Conditions and Operational Data, by H. Wysocki, F. W. Hillnhutter. GERMAN, rpt, Paper C.7 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966, pp 369-384. BISI 5478

Assessing the Quality of Blast Furnace Coke, by F. Byrtus. GER AW, rpt, Paper C.8 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966, pp 338-347.
BISI 5479

Mathematical Determination of Rheological Properties of Glass Fiber-Reinforced Plastics for Calculating Construction Elements, by Z. P. Bazant, 28 pp. GERMAN, per, Plaste Und Kautschuk, Vol 12, No 10, 1965, pp 592-599 P100201468-V FTD-HT-67-334

Use of Linear Analysis for Quantitative Description of the Structure of WC-Co Alloys, by H. E. Exmer, H. F. Fischmeister.
GERMAN, per, reskt Met, Jan 1966, pp 19-27.
*BISI 6614

The Intermediate Stage After Quenching and Tempering Observed by Optical and Electron Microscopy, by K. L. Naurer, F. Jeglitsch. GERLAN, per, Radex-Rund, No 3/4, 1967, pp 539-546.
*BISI 6605

Examples of Micro-Reflectivity Measurement, by H. Scheidl, R. Mitsche.
GERMAN, per, Radex Rund, Aug 1967, pp 596-607.
BISI 6452

Comet-Tails in the Polishing of Sheets of Corrosion-Resistant Austenitic Steel, by F. Bauer, J. Riedl. GERMAN, per, Radex Rund., 1967, pp 635-640. BISI 6121

Direct Determination of Grain Size With the Hot Stage Microscope, by A. Kulmburg. ŒRFAN, per, Radex-Rund., No 3/4, 1967, pp 685-691. *BISI 6652

Application of the Quantimet Television Microscope in Metallography, by N. B. Dudek. GERMAN, per, Radex Rund, Aug 1967, pp 790-794. BISI 6456

Experience With Cil-Oxygen Burners in Arc and Open Hearth Furnaces, by N. Wahlster. CERMAN, per, Radex-Rund., Vol 3, 1968, pp 155-167. 48ISI 6662

Pure Breaking Toughness in the Impact Test -A New Notched Bar Impact Test, by U. Issarescu. GERMAN, per, Schweiser Arch., 1968, pp h0-49. «BISI 6665 Scientific
Materials (Contd)

The Properties of Steels Produced From Atomized Alloyed or Unalloyed Powders, by M. Dautsenberg. CERMAN, per, 2nd European Congress on Powder Metallurgy, 1968, pp 27.

Sintering Behaviour and Radial Compressive Strength of Fe-Sn and Fe-Cu-Sn Sintered Compacts, by F. Esper, K-H. Friese. GERMAN, rpt, 2nd European Symposium on Powder Metallurgy, Stuttgart, 1968. *BISI 6599

The Production of Iron and Alloy Powders by Atomization of Molten Metal, by M. Michalke, W. Scholz.

GERMAN, rpt, 2nd European Symposium on Powder Metallurgy, 1968.

*EISI 6587

Production of Moulds by Powder Slip Casting, by A. G. Dobrowolskij.
GERMAN, rpt, 2nd European Symposium on Powder Metallurgy, Stuttgart, Section 4.6, 1968, pp 1-16.
**HISI 6639

New Developments in Copper - and Nickel-Bearing Sintered Steels, with Special Reference to Applications of Such Steels, by G. Zapf, B. D. Hahn. GERMAN, rpt. 2nd European Symposium on Powder Metallurgy, (Stuttgart), May 1968, 30 pp. *MISI 6624

New Studies of the Plastic Behaviour and Breaking Behaviour of Hard Matals, by J. Burbach. (BRMAN, per, 2nd European Symposium on Powder Matellurgy, Paper No 7, 13, 1963, pp 1-30.

Structure and Strength of Glass Fibers, by Georgi M. Bertenjew GERMAN, per, Silikattechnik, No 10, 1967, pp 315-318.
**FTD-HT-23-865-68

Roduction Processes and Inter-Element Effects in Optical Emission Spectrographic Analysis of Steel II, by O. Herberg. GERHAN, per, Spectrochim. Acta., Vol 23B, 1968, pp 363-371. 48ISI 6669

The Resistance of Copper Steel to Atmospheric Corrosion, by K. Daeves. GERMAN, per, Stahl Eisen, Vol 46, 1926, pp 1857-1863.
BISI 6266

Comparative Study of the Technical and Economic Characteristics of the Production and Processing of Sponge Iron. Part I, by U. Kalla, H.-D. Pantke. GERMAN, per, Stahl und Eisen, Vol 87, No 9, 1967, pp 534-539.

HB 7208-I

Metallurgical Conditions for the Formation of Oxide Layers on Cemented Carbide Tools During Machining, by A. Wicher, R. Pape.

GERLAN, per, Stahl Elsen, Vol 87, 19 Oct 1967, pp 1262-1269.

*BISI 6616

Tinning of Steel, by J. Siewert. GERMAN, Stahl Bisen, Vol 87, 1967, pp 1594-1599. BISI 6200

Rough Appreisal of Machinability of Low-Carbon Free-Cutting Steels, by A. Hauttmann. GERMAN, per, Stahl Eisen, Vol 88, 25 Jan 1968, pp 62-67. EISI 6212

Effect of the Cooling Conditions on the Descaling Properties of Wire Rod, by F. Funke.

M. Heinritz.

GERMAN, per, Stahl Misen, Vol 88, 21 Par 1968, pp 270-279.

*EISI 6622

Austenite Grain Growth in Unalloyed, Chromium, Chromium-Manganese and Chromium-Vanadium Structural Steels Containing 0.15 to 0.6% Carbon, by E. Beuler.
GERMAN, per, Stahl Eisen, Vol 88, 1968, pp 377-387.
BISI 6515

Material Flow and Production Control in a Continuous Tube Rolling iill Using a Data Processing Flant, by W. H. Fhilipp.
GERMAN, per, Stahl Elsen, Vol 88, 2 Hay 1968, pp 445-450.
HISI 6508

Scientific
Materials (Contd)

Investigations on Roll Roughness and Transfer of Roughness to the Sheet During Temper Rolling, by W. Pankmin.

CERMAN, per, Stahl Eisen, Vol 88, 1968, pp 484-491.

*BISI 6651

Principles and Possibilities of Hot Dip Galvanising Steel Wire, by D. Horstmann. GERMAN, per, Stehl Eisen, Vol 68, No 10, 1968, pp 1499-507.

Investigations on the Retallurgy of the Oxygen Steelmaking Process for Pig Iron Rich in Phosphorus, by J. Schoop.

GERMAN, per, Stahl Elsen, Vol 88, 13 June 1968, pp 628-637.

*BISI 6593

Metallurgical and Technological Fundamentals of Electroslag Remelting of Steel, by W. Holzgruber, E. Flockinger. GERLAN, per, Stahl Elsen, Vol 88, 13 June 1968, pp 638-648. *BISI 6617

Studies of the Rolling Technique Used in the Reversing Roughing Train of a Wide Strip Mill, by O. Pawelski.
GERHAN, per, Stahl Eisen, Vol 88, 1968, pp 689-699.

BEISI 6660

Supplementary Desulfurisation of High-Carbon Iron, Using an [Ostberg] Stirring Device, by H. P. Schulz.
GERHAN, per. Stahl und Maen, Vol 88, No 7, 1968, pp 321-326.
HB 7460

Segregation Bands in Austenitic Steels, by G. Grutaner, H.-J. Schuller. Grk.AH, per, <u>Stahl Risen</u>, Vol 88, 11 July 1968, pp 713-726. *HSI 6619

The Use of Powdered Line with Different Calcining Degree in the Caygen Top-Micring Process for Pig Iron Rich in rhosphorus, by J. Schoop. GER:AN, per, Stahl Misen, Vol 88, 11 July 1968, pp 756-766.

**HISI 6618

Advantages of Rapid Determination of Coygen in Steel for the Steel Flant, by H. Kobusch. GERMAN, per, Stahl und Elsen, Vol 88, No 9, 1968, pp 439-445.

Measurement of Sound Intensity for Supervision of Slag Formation and Reactions in the Top Elowing of Low-P Hot Metal with Pure Coygen, by F. Berdenheur. GERMAN, per, Stahl Elsen, Vol 88, No 12, 1968, pp 613-620.
**HB 7492

Plant Experience with the Charging of Sponge Iron Pellets into the Arc Furnace, by M. A. Wahlster. GERMAN, per, Stahl Misen, Vol 88, No 12, 1968, pp 621-627.
*HB 7499

Comparative Studies of Hot Workability of Austenitic Steel X 10 NiCrwTi 36. 15 from the Basic Arc Furnace and After Remelting in the Electron-Beam Multichamber Furnace, by K. Skuin. GERMAN, per, Technik, Vol 22, No 8, 1967, pp 508-512.
**HB 7494

Higher Strength Steels Used for Pressure Vessels, by H. Wehrmann, 11 pp. GERMAN, per. <u>Die Technik</u>, Vol 23, No 7, Jul 1968, pp 1446-1449.
JPRS 46,354

Reducing of Thick-Walled Tubes, by H. Biller. GERWAN, per, Techn Litt. Vol 60, No 10, 1967, pp 418-422. BISI 6488

Segregation Phenomena in the Solidification of Steel Ingots in Small Houlds, by M. Wahlster, H. Brocker.
GERHAN, rpt, Techn Mitt Krupp Forschungsber, Oct 1962, pp 73-82.
*BISI 6610

Investigation of the Reactions of Liquid High Iron (II) Oxide Slags with Solid Carbon, by H. Brainer.

GERMAN, per. Techn Litt Krupp Forschungsber, Vol 24, July 1966, pp 139-146.
BISI 5669

Scientific Materials (Contd)

Origin and Importance of Residual Stresses, by A. Erker.
GERMAN, per, V.D.I.Z., Vol 104, 21 Sep 1962, pp 1377-1388.
BIS1 5350

The Significance of Adjustments to Long-Time Creep Data, by W. Ruttmann, H. Kaes. GERMAN, per, VGB Mitt, Vol 48, Feb 1968, pp 1-9. BISI 6441

Quantitative Radiographic Phase Analysis of Different Types of Rust, by P. Keller. GERMAN, per, Werk Korros, Vol 18, Cet 1967, pp 865-878.
*BISI 6623

Steels for Intricate Corrosion Problems in the Chemical Industry, by J. O. Edstrom, B. Lofblad. GERMAN, per, Werks Korros, Vol 18, Nov 1967, pp 769-777. BISI 6525

The Study of Dependence on Potential of Intercrystalline Corrosion of Sensitised Ferritic Chromium Steel Containing Approximately 17% Chromium, by G. Herbeleb. GERMAN, per, Werk Korros, Vol 19, No 3, 1968, pp 204-209. *HISI 6640

Nonferrous Metals Must be Used More Economically, by W. Lange, I. Bohme, 5 pp. GERMAN, np. Die Wirtschaft, 25 July 1968, p 19. JPRS 46338

Dependence of Spectrographic Sulphur Determination on the Anisotropy of Sulphides in Steel, by W. Kooh.

GERMAN, per, Z. Analyt. Chem., Vol 225, No 2, 1967, pp 196-203.

WHISI 6670

Application and Advantages of Air-Cored Coils for the Continuous Measurement of the Magnetic Values of Electrical Steel Strip, by W. Frings, G. Hluchnik GERMAN, per, Z. Angew. Phys., Vol 21, Nov 1966, pp 418-422 BISI 5607

Corrosion Processes in Copper-Containing Steels, by C. Carius.

GERMAN, per, Z ketallk, Vol 22, Oct 1930, pp 337-341.

BISI 6480

The Crystal Structure and Composition of Oxide Layers on Iron-Chromium-Aluminum Alloys as a Function of the Thickness of the Oxide Layer, by I. Pfeiffer, 8 pp. GERMAN, per, Zeitschrift Fur Metallkunde, Vol 53, No 5, 1962, pp 309-312. Plo0247168-V FTD-HT-23-1014-67

Recording of Stress-Strain Curves with the Aid of a Computer, by H. Mecking.

GERMAN, per, Z Metallk, Vol 58, No 3, 1967, pp 197-200.

BISI 5967

Roll Cladding of Aluminum with Austenitic Chrome-Nickel Steel, by W. Thiele.
GERMAN, per, Zeitschrift Metallkunde, Vol 58, No 10, 1967, pp 670-675.
HB 7537

Electrochemical Behavior of Vacum-Helted Chrome-Rickel Steels, by Thomas Draws, H. G. Feller, et al, 26 pp. GERMAN, per, Zeit. Met.11kunde, Vol 58, No 10, 1967, pp. 714-721. p911254568-V AEC-UCRL-Tr-10252

Effect of Neutron Irradiation on the Plastic Deformation of Iron Single Crystals of Different Carbon Content. II. Plastic Stress-Strain Curves, by Gerd-Peter Seidel, 15 pp.

GERMAN, per, Zoit. Metall., Vol 59, No 1, 1968, pp. 82-86. P911228668-V

AEC-ORNL-tr-1950

Shape of Fusion Zone in Electron Beam Welding, by F. moch, G. Neubert.
GERMAN, per, Zis Mittellungen, Vol 9, No 12, 1967, pp 1625-1633.
HB 7535

Ferromanganese Manufacture, by P. Pilter. HUNDARIAN, per, Koh. Lapok, Vol 100, No 1, 1967, pp 22-29. BISI 5958 Scientific Materials (Contd)

Additives in Motor Oils Widely Developed, by Nandor Szava, 6 pp.
HUNGARIAN, per, Koolaj es Foldgaz, No 2, Feb 1968, pp 59-60.
JPRS 46,325

;

Modifications to operating Practice and to Flant, Caused in Two Pusher Furnaces, for the Purpose of Controlling the Decarburisation of Steel, by F. Barba.

ITALIAN, per, Met Ital, No 6, 1967, pp 401-413.
BISI 5899

Influence of the Heating Programme on Product Quality with an experimental Coke Oven, by M. Castelli, L. Falumbo.
ITALIA:, rpt, Paper B.9 Presented at the International Congress in Charleroi on Coke in the Iron and Steel Industry, 19-22 Sep 1966, pp 249-260.
EISI 5476

Studies on the Flash Resistance Sintering of Metal Powders, by T. Sakai.

JAPANESE, per, J Jap Soc Powder Met, Vol 14, July 1967, pp 164-173.

BISI 6308

Study on Sulphide Corrosion Cracking of Steels by Radio-Isotope Tracer Technique, by H. Iijima, K. Inamoto.

JAPANESE, per, Nippon Kinzoku, Vol 32, No 1, 1968, p 19.
*BISI 6612

Effects of Additional Elements on Susceptibility of Austenitic Stainless Steels to Stress Corrosion Cracking in High-Temperature Water Containing Chloride, by G. Ito.

JAPANESE, per, Nippon Kinsoku, Vol 32, No 3, 1968, pp 295-300.

*HB 7510

The Formation of Cube Texture in 50xNi-50xFe Alloy, by E. Nakae. A. Okada.

JAPANESE, per, <u>Nippon Kinsoku</u>, Vol 32, No 4, 1968, p 9.
*BISI 6586

Fluorescent X-Ray Analysis of FesI, Felo, FeCr, FeSi-Ng, FeNh, and CaSi, by A. Tsukamoto. JAPANESE, per, https://doi.org/10.100/10.1001/10.100

The Application of large Rimming Steel Ingots to Cold Rolled Deep Drawing Steel Sheet, by h. Sugazawa.

JAPANESE, per, Sumitomo Met. Vol 19, Apr 1967, pp 142-155.

EISI 6220

On the Various Factors Affecting Atmospheric Corrosion of Steels, by M. Kowaka.

JAPANESE, per, Sumitomo Metals, Vol 20, No 2, 1968, pp 33-42.

*BISI 6642

Study on Line Inspection From a Human Engineering Viewpoint, by M. Shimabukuro. JAPANESE, per, Techn. Rep. of Fuji Steel, Vol 16, No 3-4, 1967, pp 239-245. **BISI 6664

The Lechanism of Formation of Microscopic Inclusions Produced by Air-Oxidation of Molten Steel, by K. Senda.

JAFANESE, per, Tetsu-to-Hagane, Vol 53, Jan 1967, pp 11-27.
EISI 6137

On the Tempering Behaviour of 3Cr-W, 3Cr-W-Co and 12Cr-W-Co Type Hot Work Tool Steels, by T. Nishimura.

JAPANESE, per, Tetsu to Hagane, Vol 53, 1967, pp 116-130.

BISI 5952

Theory of Solidification and Segregation, by K. Niwa.

JAPANESE, per, Tetsu-to-Hagane, Vol 53, 1967, pp 1125-1141.

*BISI 6655

On the Fundamental Properties of High-Basicity Pellets, by K. Kunii.

JAPANENE, per, Tetsu to Hagane, Vol 54, No 4, 1968, pp 266-276.

HB 7476

praining by Plastic Brainpipes, by Merbert Bups, 7 pp.
1001000, per, Gospodarka Modna, Fol 24, No 6, 1964, pp. 208-210.
UNDTA IT 67-56047

Scientific Materials (Contd)

Experiments and Research on the Pouring of Rimming Basic Oxygen Furnace Steel at High Rates, by M. Stankiewicz.

POLISH, per, Hutnik, Vol 35, No 4, 1968, pp 162-166.

HB 7490

Highly Heat Resistant Epoxy Resins, by J. Jedlinski, W. Pradellok.

POLISH, per, Polimery Tworzywa Wielkoczasteczkowe, No 7, 1967, pp 323-328.

ACSI J-3898

FSTC-HT-23-235-68

Increase in the Viscosity of Epoxy Resin During Hardening by Acid Anhydride, by P. Penczek.
POLISH, per, Folimery Tworzywa Wielkoczastezkowe, No 7, 1967, pp 328-331.
ACSI J-3898
PSTC-HT-23-235-68

Technological and electrical roperties of Small-Viscosity Epoxy Compounds Cured at Elevated Temperatures, by M. Furmaniakowa, A. Jerzykiewicz, 7 pp.

1011SH, per, rolimery-Tworzywa Wielkoczasteczkowe, vol 10, No 8, 1965, pp 339-341.

C.STI TT 67-56041

Nagmetic Analysis of Textures in Transformer Sheets, by G. Soltysik.

POLISH, per, <u>Prace Inst. Hutnicsych</u>, Vol 20, No 1, 1968, pp 55-59.

*BISI 6667

Measurement of Microhardness in Cast Iron, by K. Sekowski. POLISH, per, Pra Odlewn, Vol 14, No 3, 1964, pp 77-83. *BISI 6635

Tests on the Reducibility of Iron Gres and Their Sinters, by H. P. Risso.
PORTUGUESE, per, Met. ABM, Vol 23, 1967, pp 81-100.
BISI 5964

Hot Cooling of Rolling Hill Rolls, by J. de Oliveira Ferras.
PORTUGUESE, per, Met. ABM, Vol 23, 1967, pp 269-279.
**BISI 6661

Scientific Materials (Contd)

Increasing the Service Life of Bogie flatforms and Ingot Koulds, by A. Chisu. RUMANIAN, per, Met Constr Masini, No 3, 1962, pp 193-199.
HISI 5564

Higher Yield in Metallurgy Depends on Organization, by Traian Tecu, 5 pp.
RUMANIAN, np. Scinteia, 15 June 1968, pp 1, 3.
JPRS 46040

Contribution to the Study of the Destruction by Cavitation of Some Steels Obtained by Alloying in the Electric Arc, by M. Hrelescu, A. Vas, 17 pp.

RUMANIAN, per, Studii Si Cercetari
De Metalurgie, Vol 10, No 2, 1965, pp 347-357.

P100230468-V

FTD-HT-23-969-67

Report Made on Progress of Ferrous Metallurgy Plan, by Mileva Stefanovic, 11 pp. SERBO-CROATIAN, per, Celik, No 12, Apr 1968, pp 12-15.
JPRS 46,325

Investigation of the Deformation Resistance in Retals and Alloys, by G. Wallquist. SWEDISH, per, Jernkon Ann. Vol 135, No 6, 1951, pp 197-218. RISI 6030

The Organisation and Economy of Research, by K. E. Jakenberg. SWEDISH, per, <u>Jernkon Ann</u>, No 1, 1968, pp 9-18. *BISI 6633

Compound With Structure Type W₆Fe₇ in an Mo-Ni-Si System, by R. V. Skolosdra, Ye. I. Hladysheva'kyy, 2 pp. UKRAINIAN, per, <u>Ukrayins'kyy Fisychinty</u> Zhurnal, Vol 11, No 2, 1966, pp 206-208 P100206968-V FTD-HT-67-401

Scientific
Mathematical Sciences

About a Correlation Perception Method, by V. A. Kovalevskiy, lh pp.

RUSSIAN, bk, AN UKRSSR. Chitayushchiye
Avtomaty I Raspoznavaniye Obrazov,
1965, pp 46-61
P100201368-V
FTD-HT-23-504-67

On an Algorithm For Using Information Redundancy in Multidimensional Reproducing Systems, by P. F. Osmolovskiy, 5 pp. RUSSIAN, per, Doklady Akademii Nauk SSSR, Moscow, Vol 181, No 2, 1968, pp 301-304.

JPRS 46510

Finite-Dimensional Irreducible Representations of the Unitary and Complete Linear Group and its Related Special Functions, by I. M. Gelfand, M. I. Grayev, 51 pp.
RUSSIAN, per, Izv. Akad. Nauk SSSR, Ser. Mat., Vol 29, 1965, pp 1329-1356.
AEC-LA-Tr-67-89
P911248868-V

Algorithm for Calcularing Reduction in a Blooming Will, by F. G. Patrunov.
RUSSIAN, per, Izv VVZ Cher Met, No 1, Jan 1966, pp 122-127.
*BISI 6625

Statistical Model of Two-Zone Point Reactor Systems, by B. Kozik, Li Khon Seb, 9 pp. RUSSIAN, rpt, JINR-P2828, 1966.
AEC-ANL-Tr-651
P911253168-V

The Principle of Increasing the Degree of Indeterminacy of Boolean Functions. An Algorithm for Determining the Shortest Disjunctive Normal Forms, by Y. N. Kornev.
RUSSIAN, per, <u>Kibernetika</u>, No 4, 1967, pp 9-16.
*FTD-M-24-333-68

Equilibrium of an Elastic Axisymmetrically Loaded Thick-Walled Cylinder, by V. K. Prokopov, 17 pp.
RUSSIAN, por, Prikl. Hath. Hekh, Vol 13, 1949, pp. 135-144.
AEC-UCRL-Tr-10256 P911255508-V

Scientific Mathematical Sciences (Contd)

Tactical roblem of the Redistribution of a Group of Fishing Vessels at Work, by S. G. D'yachkov, 6 pp.
RUSSIAN, per, hybnoye hozvaystvo, No 6, 1968, pp 79-81.
JPRS 46274

A Mathematical Method for Determining Possible Variations of Arrangements of Fishing Vessels, by S. S. El'bert, 8 pp. RUSSIAN, per, Rybnoye Khozyaystvo, No 6, 1968, pp 82-85.

JPRS 46274

Nothernatical Programming of Fishing Fleet Operations, by S. S. El'bert.
RUSSIAP, per, Rybnoc Khoz, Vol 64, No 7, 1968, pp 78-80.
*Dept of Interior Dureau of Cornercial Fisheries
Tranch of Foreign Fisheries

Statistical Methods for Design of Extremal Experiments, by V. V. Nalimov, N. A. Chernova, 412 pp.
RUSSIAN, bk, Statisticheskiye Metody Planirovaniya Ekstremal'nykh Eksperimentov. Nauka. Moscow, 1965, pp 1-340
Pl00199668-V
FTD-HT-23-660-67

Plotting Quasi-Conformal Reflections for Certain Gas Dynamics Problems, by G. S. Lipovoy, 6 pp.
RUSSIAN, per, Ukrainskiy Matematicheskiy Zhurnal, Vol 17, No 1, 1965, pp 112-117 P100205168-V FTD-HT-67-402

Numerical Solution of Hyperbolic Equations and Systems with two Independent Variables by a Method of the Runge-Kutta Type. I., by Nguyen Kong Tuy, 16 pp.
RUSSIAN, per, Vestsi Akad, Navuk Belaruskay SSR, Ser. Fizika Math. Nauk, 1965, pp 110-120.
RSIC-811 P200234768

Scientific
Mathematical Sciences (Contd)

Scientific Information (All Union Conference on Computational Mathematics), by A. N. Tikhonov,
N. S. Bakhvalov, 3 pp.
RUSSIAN, per, Zhurnal Vychislitel'noy
Matematiki I Matematicheskoy Fiziki,
Vol 5, No 4, 1965, pp 779-780.
P100219768
FTD-HT-67-450

Assured Evaluations of System
Reliability with Incomplete Information Concerning Reliability of
Elements, by Yu. B. Germeyyer,
D. S. Irger, 22 pp.
RUSSIAN, per, Zhurnal Vychislitel'noy
Matematiki I Matematicheskoy Fiziki,
Vol 6, No 4, 1966, pp 733-747
P100203168-V
FTD-HT-67-463

Solution of Differential Equations Utilizing Curvilinear Difference Nets, by S. K. Godunov, G. P. Frokopov.

RUSSIAN, per, <u>Zhurnal Vychislitel'nov Matematiki i Matematicheskoy Fiziki</u>, Vol 8, No 1, 1968, pp 28-46.

*FTD-HT-23-816-68

Convergence of Finite-Dimensional Approximations (in the Problem of Optimal Heating of a Nonhomogeneous, Arbitrary-Form Body), by V. I. Flotnikov. RUSSIAN, per, Zhurnal Vychislitel noy Natematiki i Natematicheskoy Fiziki, Vol 8, No 1, 1968, pp 136-157.
*FTD-HT-23-816-68

Nethod for Simultaneous Summation of Pinary Numbers, by V. I. Nanayonkov, 2 pp. RUSSIAN, Patent 163312 (830850/26-24), Class 42m, 1403, p 1. P100203168 FTD-HT-23-933-67

The Numerical Solution of One Class of Nonlinear Integral Equations of Dispersed Type, by I. Nedyalkov, G. Penchev, 9 pp.
BUIGARIAN, per, Bulgarska Akademiya Na Naukite. Fisioheski Institut.

Izvestiya Na Fizioheskiya Institut

S Aneb, Vol 12, No 1/2, 1964, pp 143-151.
P100229568-V
FTD-HT-23-911-67

Scientific
Mathematical Sciences (Contd)

Comparison of Several Iterative Methods for Solving Eigenvalue Problems of Mathematical Physics Equations, by Hung-tz'u Huang.

CHINESE, bk, Ch'iu Shu Hsueh wu li Fang Ch'eng t'e Cheng Chih Wen t'i ti Chi Chung Tieh tai fa pi Chiao, Peking, Chung-kuo k'o Hsueh Yuan Chi Shu Yen Chiu so, Oct 1963, 16 pp.

*FTD-HT-23-822-68C

The Dirichlet Problem of a System of Degenerating Elliptic Type Equations, by Ch'ing-Yu Chang, 13 pp.
CHINESE, per, Shu Hsueh Hsueh Pao (Acta Mathematica Sinica), Vol 14,
No 3, 1964, pp 379-386
Ploc203468-V
FTD-HT-67-338

Formulas for the Numerical Solution of y' = f (t, y), Which Contains Higher Derivatives, by V. Jankovic, 15 pp CZECH, per, Aplikace Matematiky, Vol 10 No 6, 1965, pp 469-482 P100202668-V FTD-HT-23-755-67

The Squaring and Multiplying of Fourier Series, by W. Meyer Zur Capellen, 6 pp. GERMAN, per, Buletimul Institutului Politehnic - Din Iasi - Serie Noua, Vol 8, No 3/4, 1962, pp 19-24 Pl00200768-V FTD-HT-23-731-67

Runderical Investigations into Methods of Criticallity and Breeding Eates Calculation for Reactors with Cylinder Geometry and Partially Inserted Control Rods, by W. Schweije, 33 pp. GERMAN, rpt, KFK 741, Barch 1968
AGC-EURFMR-502 P911249268-V

Introduction of Arithmetic Method of Calculating Leasurements of Advor Edscharge, by Juliusz Stachy, 3 pp. Lines, per, gospodarka modna, he 2, 1963, p 87. UNSTI TT 67-50056

Scientific Mathematical Sciences (Contd)

Complete Logic Matrices. Their Use in Minimizing Boolean Expressions, by D. Damsker, 11 pp.
RUMANIAN, per, Automatica Si
Electronica, Vol 10, No 3, 1966, pp 97-102.
P100230868-V
FTD-HT-23-646-67

Mechanical, Industrial, Civil & Marine Engineering

Small Water-Cooled Non-Ballast Xenon Lamp, by N. C. Marshak.
RUSSIAN, per, Source Unknown, pp 14-17.
ACSI J-5049
FSTC-HT-23-205-68

Soviet Construction Schedules Shrinking, 6 pp. RUSSIAN, per, Agitator, No 14, 1968, pp 28-30. JPRS 46383

Problems of Flanning, Construction of Tol'yatti, by B. Rubanenko, 28 pp. RUSSIAN, per, Arkhitektura SSSR, No 6, 1968, pp 1-13.

JPRS 46299

On Postcritical Deformations of a Short Cylindrical Shell and Square Panel under Axial Compression, by V. V. Mykhaylov RUSSIAN, per, AN UkrRSR. Dopovidi. Seriya A. Fizyko-Tekhnichni ta Matematychni Nauky, No 4, 1967, pp 350-353. *FTD-HT-23-868-68C

Construction in the Southern Urals Preised, by G. Smirnov, 20 pp.
RUSSIAN, np. Ekonomicheskaya Gaseta, No 22, May 1968, pp 23-26.
JPRS 46182

Efficient Gas Apeline Distribution Sought, by N. Hokrousov, Yu. Trubayev, 9 pp. RUSSIAN, per, Ekonomicheskiye Nauki, No 6, 1968, pp 56-61.
JPAS 46380

Improving Rural Construction in Uzbekistan, by Ah. Nasyrov, 6 pp. RUSSIAN, per, Ekonomika i Zhizn', No 5, 1968, pp 60-63.
JPRS 46383

Skilled Cadres Needed in Construction Industry, 8 pp.
RUSSIAN, per, <u>Ekonomika Stroitel'stva</u>, No 7,
Jul 1968, pp 3-8.
JPRS 46,355

Selecting the Relative Profile Thickness for Axial Compressor Blades, by V. V. Semov. RUSSIAN, per, Energomashinostroyeniye, No 9, 1966, pp 6-8.
*FTD-MT-24-326-68

Development of Studies on Noise and Vibration in Railroad Transportation and Their Results, by A. M. Volkov.

RUSSIAN, per, Gigiyena Truda i Professional*nyve Zabolevaniya, No 11, 1967, pp 58-60.

*FTD-MT-24-358-68

A Refined Theory of NonHomogeneous Transversally Isotropic Plates of an Asymmetrical Structure, by S. G. Lekhnitskiy, 15 pp.
RUSSIAN, per, AN SSSR, Isvestiya.
Mekhanika, No I, 1965, pp 81-88
P100200168-V
FTD-HT-67-58

Fagnetic Systems Employing Steel for Magneto-hydrodynamic Generators, by O. B. Bul. RUSSIAN, per, <u>Izvestiya VUZ Elektromekhanika</u>. No 12, 1967, pp 1333-1340.
ACSI J-4847
FSTC-HT-23-134-68

Correction of Twisted Turbine Blades, by I. G. Gogolev. HUSSIAN, per, <u>IVUZ. Energetika</u>, No 9, 1967, pp 62-67. *FTD-HT-23-867-68C Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Multifrequency Vibrator with Non-Circular Gear-Wheel Mechanism, by E. S. Makarov, 5 pp. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Mashinostroyeniye, No 8, 1965, pp 142-145 P100206768-V FTD-HT-67-202

Detection of Binding Centers on the Friction Surface of Machine Parts by Spectral Analysis, by B. I. Kostesskiy.
RUSSIAN, per, IVUZ. Mashinostroyeniye, No 9, 1967, pp 51-53.
*FTD-MT-24-327-68

Reasons for the Variation in the Vibration Level of Hydraulic Motors, by I. A. Baranov. RUSSIAN, per, Izvestiya Vysshikh Uchnebnykh Zavedeniy. Priborostroyeniye, Vol 10, No 5, pp 95-96.
**FTD-MT-24-341-68

Three-Level Ferrite-Transistor Logic Elements, by M. P. Troitskaya.
RUSSIAN, per, <u>IVUZ. Priborostroyeniye</u>, Vol 10, No 7, 1967, pp 81-84.
*FTD-MT-24-335-68

The Use of Gas Refrigerating Machines to Cool Temperature Chambers, by L. I. Mak
RUSSIAN, per, Kholodil'naya Tekhnika, No 9,
1967, pp 30-33.
**FTD-HT-23-877-68C

Forging of Large Forged Pieces (Part II), by V. N. Trubina, V. A. Shelekhova, 40 pp. RUSSIAN, per, <u>Kovka Krupnykh Pokovok</u>, No 2, 1965, pp 28-36; 260-288. P100221768-V FTD-HT-67-491

Reform Creates Problems in Equipment Repair, by Tu. S. Borisov, 15 pp. RUSSIAN, per, Machinostroital', No 5, 1968, pp 39-42. JPRS 46262

New Cutting Fluids, by M. I. Klushin. RUSSIAN, per, <u>Hashinostroitel</u>, No 11, 1967, pp 23-24. *FTD-HT-23-829-68C

Influence of Cam Mechanism Parameters on Cam Profile Wear Under Conditions of Plastic Contact, by Ye. I. Vorob'yev 11 pp RUSSIAN, per, Mashinovedeniye, No 3, 1965, pp 50-55 P100166268-V FTD-HT-67-270

Production and Deliveries of Spare Parts, by I. Sukhodub, 5 pp.
RUSSIAN, per, <u>Faterial no-Tekhnicheskoye</u>
Snabzneniye, June 1968, pp 85-87.
JPRS 46189

Automatic Devices Accelerating Construction Rates, by A. A. Izmaylov, 8 pp.
RUSSIAN, per, Mekhanizatsiya
Stroitel'stva, No 7, Moscow, 1968, pp 2-4.
JPRS 46418

Flexibility in Production of Reinforcements, by V. V. Korolev, 6 pp.
RUSSIAN, per, Mekhanizatsiya Stroitel'
stva, Moscow, No 7, 1968, pp 7-9.
JPRS 46418

Construction Mechanization Under New System, by D. A. Baudel', S. K. Mekler, 13 pp.
RUSSIAN, per, Mekhanizatsiya Stroitel'
stva, Moscow, No 7, 1968, pp 24-27.
JPRS 46418

Advances in Mechanization Marked in Construction, 10 pp. RUSSIAN, per, Mekhanizatsiya Stroitel'stva, Moscow, No 8, 1968, pp 2-4.
JPRS 46530

New Construction and Road Machinery Described, by A. Ye. Volkova, 7 pp. RUSSIAN, per, Mekhanizatsiya Stroitel'stva, Moscow, No 8, 1968, pp 15-17. JPRS 46530 Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Structural Mechanics in the USSR after 50
Years. Accomplishments and Promises, by
B. G. Korenev.
RUSSIAN, per, Moscow Stroitelnaya Mekhanika i
Raschet Sooruzheniy, No 5, (53), 1967, pp 4-7.
**FTD-MT-24-356-68

Shortcomings in Kazakhstan Housing Construction, by V. Skopenkov, 7 pp. RUSSIAN, per, Narodnove Hhozyaystvo Kazakhstana, June 1968, pp 47-50.
JPRS 46383

Petropavlovsk Construction Trust Improves Work, by V. Ckopnyy, 5 pp. RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, June 1968, pp 51-53. JPRS 46383

Certain Problems in Mechanics of High Parameters, by P. M. Ogibalob, RUSSIAN, bk, <u>Nekotoryye Zadochi Mekhaniki</u> <u>Vysokikh Parametrov</u>, 1966, 272 pp. *FTD-MT-24-353-68

Fundamentals of the Planning of Aircraft-Industry Plants and Shops, by V. A. Tikhomirov, 746 pp. RUSSIAN, per, Osnovy Proyektirovaniya Samoletostroitel'nykh Zavodov i Tsekhov, 1965, pp 1-499. Ploo241668-V FTD-HT-67-001-89

Greater Efficiency Urged for Construction Industry, by I. Novikov.
RUSSIAN, np. Prevda, 9 Aug 1968, p 2.
JFRS 46383

A Study of Elastoplastic Deformation of Shells With Openings and Reinforcements by the Method of Photoelastic Coverings, by A. Ya. Aleksandrov, M. Kh. Akhmetsyanov, 9 pp. RUSSIAN, per, <u>Prikladnsya Mekhanika</u>, Vol 2, No 3, 1966, pp 1-9. P100226968-V

Elastic Equilibrium of an Isotropic Plane with a Doubly Periodic System of Inserts, by E. I. Grigolyuk.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 2, No 9, 1966, pp 1-7.
*FTD-HT-23-827-68C

On the Stability of Elastic Systems in the Small and in the Large, by I. Ya. Amiro. RUSSIAN, per, <u>Prikladnaya Mekhanika</u>, Vol 2, No 12, 1966, pp 33-40. *FTD-HT-23-826-68C

On the Problem of Selecting the Optimum Structure for Fiberglass-Reinforced Plastic in Thin Elastic Shells of Revolution, by A. V. Chigrinskiy.

RUSSIAN, per, Prikladnaya Mekhanika, Vol 3, No 9, 1967, pp 130-134.

*FTD-HT-23-861-68

Calculation of Ballbearings Working Under Combined Loads, by M. A. Leykand, 40 pp.
RUSSIAN, per, <u>Prochnost' i Dinamika Aviatsion-nykh Dvigateley. Sbornik Statey</u>, No 3, 1966, pp 273-308. P100245268-V
FTD-MT-24-334-67

Program of Physical Experiments on a 1000-GeV Cybernetic Proton Accelerator, by A. Dolgosheina, et al. 232 pp.

RUSSIAN, bk, Programma Fizicheskikh Eksperimentov na Riberneticheskom Uskoritele Protonov na Energiyu 1000 GEV, 1967.

AEC-Tr-6936 P911252668-V

recast-Concrete sloping Roofs for Housing, by B. Danoyan, 5 pp. RUSSIAH, per, <u>Promyshlennost' Armenii</u>, No 6, 1968, pp 48-50.
JPES 46407

Applications of Electrical Fishing Devices, by A. Ye. Fomichav, 6 pp. RUSSIAN, per, Rybnoye Khozyaystvo, No 8, 1967, pp 45-77.

JPRS 46,342

Some Problems in Fish Industry Discussed, by P. M. Zaglubotskiy, 5 pp. RUSSIAN, per, Rytnove knowaystvo, No 6, 1968, pp 2-3.
JPRS 46268

Scientific Mechanical, Industrial, Civil & Marine Engineering (Contd)

Seine-Hauling Machine Designed by Kartenikov, by E. M. Studentsova.

RUSSIAN, per, Rybnee Khcz, Vol 144, No 7, 1968, pp 31-33.

*Dept of Interior

Sureau of Commercial Fisheries

Branch of Foreign Fisheries

Utilizing Structural Redudancy to Enhance the Reliability of Automata, by Ye. N. Turuta. RUSSIAN, rpt, Sb. Vychisl. Sistemy. Vyp. 25 Novosibirsk, "Nauka, 1966, pp 19-30. *FTD-HT-23-863-68C

Improvements Needed in Rural Construction, by S. Khitrov, 5 pp.
RUSSIAN, np, Sel'skaya Zhizn', Moscow,
11 August 1968, p 2.
JPRS 46420

Lowering of Weight of Machine-Building Constructions (Chapter V and Selected Sections of Chapter IV) by V. N. Zhuravlev, hh pp RUSSIAN, per, Snizheniye Vesa Mashinostroitel'nykh Konstruktsiy, 1961, pp 181-239 P100207668-V FTD-MT-24-196-67

Plans for Soviet Power Construction in 1971-1975, by Ya. Finogenov, 6 pp. RUSSIAN, np. Stroitel nava Gageta, 18 Aug 1968, p 2.
JPRS 46379

Construction and Road Machinery Plans for Fature, 6 pp.
RUSSIAN, per, Stroitel'nyye i dorozhnyye mashiny, Moscow, No 7, 1968, pp 1-2.
JPRS 46418

Determining Dependencies Between
Machine Paremeters, by S. R. Golubovich,
I. P. Kerov, 7 pp.
RUSSIAN, per, Stroitel'nyye i
Doroshnyye Machiny, Moscow, No 7,
1968, pp 10-11.
JPRS 46450

Road Machine Plants Save Labor and Material, by A. A. Andreyev, 6 pp. RUSSIAN, per, Stroitel'nyye i. Dorozhnyye Mashiny, Moscow, No 7, 1968, pp 35-36.
JPRS l₄6450

Shortcomings in Technical Control of Construction, by B. M. Kovyazin, 5 pp. RUSSIAN, per, Stroitel'stvo i Arkhitektura, No 7, 1968, pp 37-38.

JPRS 46383

Railroads View Their Future Development, by Ye. Cherednichenko, 5 pp. RUSSIAL, np. <u>Trud</u>, 18 July 1968, p 2. JRRS 46380

Kinetics of Metal Failure during Cyclic Loading, by T. A. Lebedev.
RUSSIAN, per, Trudy: Leningrad. Politekhnich-eskiy Institut. im. M. I. Kalinina,
Mashinostroyeniye, No 282, 1967, pp 33-42.
*FTD-MT-24-366-68

Cold Metalworking with Milling Cutters and Liquid-Metal Stamping, by S. Shirokov, 5 pp.
RUSSIAN, per, Vdnkh SSSR, Informatsionnyy Byulleten', No 11, 1966, pp 38-39
Pl00194468
FTD-HT-23-764-67

Construction, Renovation Goals Met in Moscow, by S. Ionov, 5 pp. RUSSIAN, np, Vechernyaya Moskva, Moscow, 9 August 1968, p 1. JPRS 46581

RESIAN, per, <u>Vestnik rashinostroveniva</u>, No 5, 1968, pp 3-8.

JPRS 46395

Better Repair Organisation and Specialization Needed, by S. I. Semin, 8 pp. RUSSIAN, per, <u>Vestnik Mashinostroveniva</u>, No 6, 1968, pp 3-6. JPRS 46262 Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Development of Hydroelectric Engineering Traced, by A. N. Zykov, 17 pp. RUSSIAN, per, <u>Voprosy Istorii KPSS</u>, July 1968, pp 84-92.
JPRS 46276

The Use of Thermoelectric Generators, by G. A. Matveyev, L. M. Drabkin.
RUSSIAN, per, Zheleznodorozhmyy Transport,
No 12, 1967, pp 56-57.
ACSI J-1,846
FSTC HT-23-133-68

Strengthening Railroad Frog Points by Explosion, by V. I. Vlasov. RUSSIAN, per, <u>Zheleznodorozhnyy Transport</u>, No 1, 1968, pp 64-66. *FTD-NT-24-329-68

Container for Extrusion of Shapes With Large Widths, by L. D. Gol'man, L. Yu. Maksimov, 2 pp. KUSSIAN, rpt, Patent 164774 (832363/25-8) Class 49h, 11, pp 1-2. P100228568-V FTD-HT-67-122

Apparatus for Measurement of Small Damping Moments in Wind-Tunnel Model Tests, by V. S. Bykov,
B. A. Komashinskiy, 4 pp.
RUSSIAN, rpt, Patent 128179
(635484/25) Class 42k, 20, pp 1-4.
P100228568-V
FTD-HT-67-122

The Application of Ultrahigh Vacuums, by Chung-I Hua, 11 pp.
CHINESE, per, K'o Hsueh Hua Pao,
No 12, 1963, pp 445-448
P100208468-V
FTD-HT-67-214

Research and Development for Liquid Metal (Pb-Bi) Equipment at the Ibzkg Research Institute for Power Plants, by F. Dubrek, 22 pp.

CZECH, per, Jaderna Energie, No 7, 1965, pp 246-255
Pl00199968-V
FTD-HT-67-213

Blading Design of an Axial Compressor, by J. Sintak, 21 pp.
CZECH, per, Strojirenstvi, Vol 15,
No 3, 1965, pp 172-179.
Pl00229468-V
FTD-HT-67-384

French Repair Shop Trucks. FRENCH, rpt, IR 2832000266, 26 pp. ACSI J-4879 FSTC HT-23-154-68

Signaling system for Railroad Vehicles. FRENCH, Patent No 857,797.
Department of Commerce
Patent Office

.rojectile with an explosive Charge, by Hotchkiss-grandt, 7 pp. FRENCH, Fatent No 1,341,656. Dept of Commerce Latent Office

The Hardening of Armor Plates by Means of Very Strong, Plane Shock Waves, Final Report, by H. G. Otto, C. Jessen, 31 pp. GERMAN, rpt, Franco-German Institute St. Louis France Technical Report 1/2h/Gi, 1904, 21 pp. ACSI J-5050 FSTC HT-23-72-68

Electrification Necessitates Tunnel Midening, 10 pp.
GERMAN, per. Geographische Berichte, Vol 13, No 2, 1968, pp 153-160.
PRS 46338

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Celection and Training of Cranebrivers and Drivers of Trackless Shop-Floor Transporters, by H. Becker, GERMAN, per, <u>Industrie-Anzeiger</u>, Vol 89, Aug 1967, pp 16-19 BISI 6467

Freely Moving Transcontainer Transport and Handling Equipment Part 4:Portal Stackers, by G. Hanssmann.

(ERMAN, per, International Foordern Und Heben, No. 1, 1968, pp 48-50.

ACSI J-4892
FSTC HT-23-58-68

Rating of Vehicle Engines According to Characteristic Data, by E. Schesk. CERMAN, per, Militartechnik, No 10, pp 149-452. ACSI J-4891 FSTC HT-23-146-68

Resistance Welding TV and Ficro-Fusion Methods. GERHAN, bk, Schweisstechnik, Vol 51, 1967, pp 1-180. ACSI J-5034 FSTC-HT-23-113-68

A Look Across the Borders: Sweden Developed World's Most Modern Tank - Tank "S" Moves in Water Like a Fish and Entrenches Itself Like a Mole.

CERMAN, per, Der Schweizer Soldat, No 8, 1967, p 186.

ACSI J-4877
FSTC HT-23-152-68

Ship Speed Measured Electrodynamically, by A. Stimper, 8 pp. GERHAN, per, Schiffbautechnik, May 1968, pp 261-264.

JPRS 46040

Engineer Provides Pioner Freighter Series Details, by H. Petri, 14 pp. GERMAN, per, <u>Schiffbautechnik</u>, East Berlin, No 7, July 1968, pp 377-381. JPRS 46514

Fourth Quarter 1967 Ship Completions, 5 pp. GERMAN, per, Seeverkehr, Apr 1968, pp 143-144. JPRS 45685

Scientific Mechanical, Industrial, Civil & Marine Engineering (Contd)

hew hajor Ships Built During January-March 1968, by Gerhard nalweit, 5 pp.
GERMAN, per, Seeverkehr, Vol 8, No 8, Aug 1968, pp 349-350. JPHS 46393

Newest Yugoslav Sleeping Car Described, by Randjel Bogdanovic, 6 pp. SERBO-CROATIAN, per, Zeleznice, No 7, Jul 1968, pp 55-58. JPRS 46,325

Natural Gas Production in Algyo Seen Possible, by Zoltan Gombos, 8 pp. HUNGARIAN, per, Koolsj es Foldgaz, No 6, Jun 1968, pp 171-174. JPRS 46,348

New Port Facilities at Asium Described, by Ramiro Santameria, 6 pp. SPARISH, per, Africa, July 1968, pp 327-330. JPRS 46392

Danubian Petroleum Industry Enterprise Described, by Pal Simon, Laszlo Haga, 17 pp. HUMGARIAN, per, <u>Koolai es Foldgaz</u>, No 6, Jun 1968, pp 181-187. JPRS 46,348

Work Begins on Guane-Havana Superhighway. by Fernando G. Davalos, 6 pp.
SPANISh, np. Granma, 16 July 1968, p 2. JPRS 46340

Layout of New Petroleum Refinery Described. by Pal Simon, Laszlo Haga, 29 pp. HUNDARIAN, per, Magyar Kemikusok Lapja, No 6, 1968, pp 323-325.
JPR3 46, 354 Equipment Management in Textile Industry Described, by Nguyen Huong, VIETNAMESE, per, Ky Thuat Cong Nghien Nhe, Hanoi, No 2, 1968, pp 13-15. JPRS 46436

Designing of Fiver Bed Cross Sections Faking Into Account Sed Load Transportation, by Boleslaw Kordas, 8 pp. .ullsii, per, Gospodarka kodna, vol 23, ke 10, 1963, pp 363-365. CESTI TT 67-56044

Flood Control Guidelines Assure Success, by ia Ke Ten, 5 pp. VILTHAMESE, np. <u>Mhan-den</u>, 18 June 1968, p 2. JPRS 46199

Serbian Trunk Line Center Being Modernized, by rredrag Danicic, 14 pp. SEREC-CRCATIAN, per, Isgradnia, No.7, July 1968, pp 14-21. JPRS 46338

Mathods & Equipment

World, Yugoslav Shipping Traffic, Tonnage Forecast by Ignac Rubinic, 21 pp.

SERBO-CRGATIAN, per, comoratvo, Nos 3-4, Mar-Apr

Permanent Redundancy under Consideration of the System

Permanent Redun 1968, pp 74-78. Jrts 46338

Estimate of the Reliability of Schemes with the Possibility of a Departure of the System A. M. Margulis, 16 pp.

RJSSIAN, per, An. LATSSR. Institut Klektroniki
i Vychislitel'nov Tekhniki Avtomatika i
Vychislitel'nava Tekhnika, No 11, 1965,
pp 199-214. P100218268-V PTD-HT-23-998-67

Highway Network Development in 1967, by Vasilije Dragovic, 6 pp. SERBO-CHOATIAN, per, Transport, Apr 1968, pp 31-34. JPRS 45685

Utudy on Passenger Transportation Trands, by mikola Cvijic, Tihondr Pavlovic, 24 pp. Daket-CRUTIAN, per, Zelemics, 7 July 1968, pp 43-50. Jrns 46338

Scientific
Methods & Equipment (Contd)

High-Speed Photography With a Rate
Up to 40,000 Frames Per Second, by
A. N. Berezkin, M. K. Berezkina, 6 pp.
RUSSIAN, bk, AN SSSR. FizikoTekhnicheskiy Institut. Aerofizicheskiye
Issledovaniya Sverkhzvukovykh Techeniy,
1967, pp 227-233.
P100231168-V
FTD-MT-24-370-67

Physical Principles and Technical Means of Aerial Surveying, by A. I. Vinogradova.

RUSSIAN, mono, Ak Nauk SSSR, Fizicheskiye Usnovy

i Tekhnicheskiye Sredstva Aerometodov, Lengrad,
1967, pp 72-147.

*FTD-MT-24-316-68

Method for Evaluating the Numerical Parameters of Structures, by Yu. P. Zaychenko. RUSSIAN, per, <u>Avtomatyka</u>, No 6, 1967, pp 23-27. *FTD-HT-23-823-68C

Thermoanemometer, by V. V. Bass, I. S. Melamed, 2 pm.

RUSSIAN, Patent 172141 (904989/26-10), Class 420, 15, pp 1-2. P100221368-V

FTD-HT-23-1121-67

Development of a New Method for Determining the Wear Resistance of Rubbers, by V. N. Feoktistov RUSSIAN, rpt, Nauchno-Issled. Tr. Vses. n.-i. in-t Plenochn. Materia' i Iskusstv. Kozhi. Sb. No 17, 1366, pp 16 1 3. **FTD-HT-23-882-68C

Engineering Method for Thermodynamic Calculations of Jet-Type Combustion Chambers Using Hydrocarbon Fuel and Air, by I. P. Goldayev. RUSSIAN, per, Samoletostroyeniye i Tekhnika Vozdushnogo Flota, No 10, 1967, pp 14-19. *FTD-HT-23-842-68

Automatic Monitoring Systems for Velocity and Flowrate Fields, by G. P. Katys, 145 pp. RUSSIAN, per, Sistemy Avtomaticheskogo Kontrolya Poley Skorostey I Raskhodov, 1965, pp 1-464. Plo0240068-V FTD-HT-23-615-67

Scientific
Methods & Equipment (Contd)

Electric Radiometer-Device for Determining the Heat of Radiant Emergy, by A. A. Vnukov, 6 pp. RUSSIAN, per, Teploenergetika, Vol 15, No 8, 1968.
Dept of Commerce
Nat Bureau of Standards

On the Question of Reliability of Standby Schemes With Constant Connection of Extra Units, by A. M. Margulis, 8 pp.
RUSSIAN, per, Trudy. AN LATSSR.
Institut Elektroniki I Vychislitel'noy Tekhniki, No 9, 1965, pp 189-197.
P100228268-V
FTD-HT-23-560-67

Shutters for Aerial Photographic Equipment, by N. P. Zakaznov, 93 pp. RUSSIAN, bk, Zatvory Aerofotoapparatov, 1965, pp 1-86. P100245968_V FTD_MT-24-294-67

XVII Conference on Scientific Photography, by Yu. N. Gorokhovskiy, 5 pp.
RUSSIAN, per, Zhurnal Nauchnoy i Prikladnoy
Fotografii i Kinematografii, Vol 10, No 6,
1965, pp 469-471. F100227968
FTD-HT-67-442

A Photoelectric Device for Automatic Focusing of Lenses, by B. N. Motenko, I. Sh. Yetsin, 3 pp. RUSSIAN, Patent 172,183. P100228568-V FTD-HT-67-122

Method of Testing Materials for Cavitational Wear, by S. P. Kozyrev, 1 p. RUSSIAN, rpt, Patent 183460 (1011062/25-28) Class 42k, 40, p 1. P100218968 FTD-HT-23-909-67

The Principle of Affine Transformation for Rectifying Aerial Photographs and Its Application, by Weisen Ching CHINESE, per, Acta Geodetica et Cartographica Sinica, Vol 9, No 1, Feb 1966, pp 27-43.

Scientific Methods & Equipment (Contd)

An Automatic Recording Device for Use with the Stereo-Comparator, by De-kuan Wang CHINESE, per, Acta Geodetica et Cartographics Sinica, Vol 9, No 2, May 1966, pp 144-150.

Operation and Costs of an Ion-Exchanging Recirculation System for Treating the Wash Water of a Pickling Plant in the Rolling Mill by L. Plumer GERMAN, per, Bander Bleche, Vol 9, Mar 1968, pp 137-139 BISI 6391

SPBIV Speed Recorders, by B. Mierkowski POLISH, per, Technika Lotnicza i Astronautyczna, No 6, 1967, pp 29-31. **FTD-HT-23-866-68C

Missile Technology

Underwater Salvo, by V. Gubarev, I. Gricher, 5 pp. RUSSIAN, per, Komsomol'skaya Pravda, No 31, 1967, p h. Ploo240468-V FTD-HT-23-817-67

Soviet Rocket Forces, by P. T. Astashenkov. 256 pp.
RUSSIAN, bk. Sovetskaye Raketnayye Voyska, 1967, pp 1-344. P100245868_V
FTD_MT_24_20_68

Command Radio Links of Rocket Control Systems, by A. M. Zhakov, F. A. Pigulevskiy, 29 pp. RUSSIAN, bk, <u>Upravleniye Ballisticheskimi</u> Raketami, 1965, pp 211-278. F100245368-V.TD-MT-24-352-67

Scientific Missile Technology (Contd)

Surface to Air Antiaircraft Guided Missiles, by M. Dostalik, 8 pp. CZECH, per, Vojenska Technika, No 7, 1965, pp 17-20. Pl00217568-V FTD-HT-23-728-67

Navigation, Communications, Detection & Countermeasures

On the Nature of Resonance Phonomena in Radio-Wave Scattering on Meteor-Trail Models, by I. V. Bayrachenko, 5 pp. RUSSIAN, per, AN UKRSSR. Mezhduvedomstvennyy Geofizicheskiy Komitet. Informatsionnyy Byulletan'. Geofizika i Astronomiya, No 1966, pp 153-156. P100222068-V FTD-HT-23-997-67

Antennas and Radio-Wave Propagation by Ye. M. Vereshchagin, 216 pp RUSSIAN, bk, Antenny I Rasprostraneniye Radiovoln, 1964, pp 1-238 P100163968-V FTD-MT-66-51

Improving Radio-Relay Communications, by
I. Lenskaya, 7 pp.
RUSSIAN, per, Avtomatika, Telemekhanika i Svyaz',
No 4, 1968, pp 41-43.
JrRS 46297

Rail Transport Radio Communications Developments, by A. A. Tantsyura, S. A. Neyman, 14 pp. RUSSIAN, per, Avtomatika Telemekhanika i Svyas', No 5, 1968, pp 1-6.
JPRS 46297

Interference Control, by A. A. Kharkevich, 222 pp.

RUSSIAN, bk, Bortba s Pomekhami, 1965.

pp 1-275. P10^224055-V

FTD-IT-24-251-67

Scientific
Navigation, Communications, Detection &
Countermeasures (Contd)

Formation of a Radiation Pattern of Radio Interferometers by the Frequency Multiplication Method, by
A. E. Balklav, 13 pp
RUSSIAN, per, AN IATSSR. Izvestiya.
Seriya Fizicheskikh I Tekhnicheskikh
Mauk, No 1, 1966, pp 60-70
P100203068-V
FTD-HT-67-495

Optimum System of Signal Detection with Noise Modulation in the Presence of Incoherent Reception, by N. M. Malyarevskiy, 12 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Radioelektronika, Vol 10, No 4, 1967, pp 335-343. Pl00243068-V FTD-MT-24-376-67

Propagation of Contineter, Millimeter and Submillimeter Radio Waves in the Earth's Atmosphere, by S. A. Zhevakin, A. P. Naumov, 35 pp. RUSSIAN, per, <u>Izvestiya Vysshikh Uchebnykh Zavedeniy, Radiofizika</u>, Vol 10, Nos 9-10, 1967, pp 1213-1243.
JPRS 46,311

Innovations in Training Radio Operations, by N. Vasil'ev, 5 pp. RUSSIAN, up, Krasnaya Zvezda, 31 May 1968, p 2. JPRS 45858

The Influence of the Sphericity of the Earth on VIF Radiowave Propagation, by F. Ye. Krasnushkin, 9 pp.
RUSSIAN, per, Radiotekhnika i Elektronika, No 2, 1968, pp 340-344.
JFES 46273

Aerospace Vehicle Mavigation Systems, by V. P. Seleznev, M. A. Mirst, 134 pp.
RUSSIAN, bk, Sistemy Mavigatsii Kosmicheskikh
Letatel nykh Apparatov, 1965, pp 1-208.
F100221268-V
FTD-MT-34-186-69

Theory of Traffic Control for Space Vehicles (Chapters IV and VI), by V. M. Ponomarev, 58 pp RUSSIAN, bk, Teoriya Upravleniya Dvizheniyem Kosmicheskikh Apparatov, 1965, pp 177-318 P100165068-V FTD-MT-24-369-67 Concerning the Reliability of Information From Networks of Remote Systems Having Dispersed Units, by B. O. Kasimov, 16 pp RUSSIAN, per, Trudy. An AZERBSSR Vychislitel'nyy Tsentr. Vopro-y Vychislitel'noy Matematiki I Vychislitel'noy Tekhniki, Vol 3 1965, pp 33-47 pro016 3868-V FTD-MT-24-389-67

Investigation of the Possibility of Balancing Gyroscope Rotors at Operating Speeds, by T. P. Kozlyaninov, 32 pp. RUSSIAN, rpt, <u>Uravnoveshivaniye Mashin 1 Priborov</u>, 1965, pp 257-289. F100243468-V FTD-NT-24-365-67

Herald of Communications, 79 pp. RUSSIAN, per, Vestnik svyazi, May 1968, No 5, pp 1-32. JPRS 46,093

Herald of Communications NUSSIAN, per, <u>Vestnik svyazi</u>, Vol XXVIII, No 7, July 1968, pp 1-27.
JPRS 46,470

Nethod of Analysis of Dispersion Distortions of a Short Pulse in the Ionosphere, by S. S. Bek, 9 pp.
RUSSIAN, per, Vsesoyuzhaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio. 22nd, Moscow.
Sektsiya Teorii i Tekhniki Peredachi Diskretnykh Signalov, 1966, pp h4-52. P100245568-V FTD-1T-24-223-67

A Method of Lowering the Noiseproofness Threshold of Broad-Band Frequency-Modulation and Phase-Modulation Receivers, by L. Ya. Kantor, V. L. Bykov, 3 pp. RUSSIAN, rpt, Patent 175089 (825111/26-9) Class 21a¹, 2202, pp 1-2. P100228568-V FTD-HT-67-122

Scientific
Navigations, Communications, Detection &
Countermeasures (Contd)

Scientific
Navigation, Communications, Detection &
Countermeasues (Contd)

Device for Automatic Retuning of the Path of Selection of a Radio-Receiving or Radio-Transmitting Apparatus, by O. V. Sidorenko, 2 pp.
RUSSIAN, rpt, Patent 170558 (799708/26-9) Class 21a4, 70, pp 1-2
Pl00188368
PTD-HT-66-677

Formation of Turbulent Wakes Behind Inlet Guide Vanes, by J. Elsner.

POLISH, per, Lodz. Politechnika. Katedra Cieplnych Maszyn Praeplywowych, Cieplne Maszyny Przeplywowe, No 63/64, 1967. Sympozjon Sprezarkowy, Lodz. 16-18, XI, 1967; Referaty, Przycznki, Komunikaty, No 1, pp 213-220.

*FTD-HT-23-870-68C

A Method of Measuring the Spectrum of Field Space Harmonics of Circular Delay Structures, by M. E. Averbukh, 4 pp.
RUSSIAN, rpt, Patent 174233
(908822/26-9) Class 21a4, 71, pp 1-2.
P100228568-V
FTD-HT-67-122

Statute Drafted for Yugoslav Radio Amateurs, 14 pp. SERBO-CROATIAN, per, Radioamater, Jul-Aug 1968, pp 240-241.
JPRS 46,325

Telecommunications Deficiencies
Enumerated, by Adolf Karbula, 9 pp.
CZECH, per, Ceskoslovenske Spoje,
Prague, Vol 13, No 3, June 1968,
pp 4-6.
JPRS 46514

Nuclear Sciences & Technology

Comparison of the Secam Color Television System With a Quadrature Modulation System (NTSC) With Overall Picture Quality as Criterion, by J. Pazderak, 13 pp. CZECH, per, Slaboproudy Obzor, Vol 26, No 3, 1965, pp lht-ltp. P100230568-V FTD-HT-67-363

Instrument-Raking Institute Research Described, by N. A. Shekhovtsov, V. V. Ratveyev, 6 pp. RUSSIAN, per, Atomaya Ehergiya, Nov 1967, pp 446-450.

Jrks 46400

Telephone System Enters First Automation Phase, by Josef Ptacek, 8 pp. CZECH, np. Telekomunikace, Nay 1968, pp 1-3. JPRS 46,325

Twenty-Fifth Anniversary of the Moscow Engineering and Physics Institute, by V. G. Mirillov-Ugryumov, Yu. A. Bykovskiy, 7 pp. RUSSIAN, per, Atomnaya Energiya, Nov 1967, pp 451-456.
JPRS 46400

Radio-Range Beacon Bomb Sight, by M. Otto, 3 pp.
GERMAN, rpt, National Zeitung (GDR), p 6.
Pl00227068
FTD-HT-23-980-67

Measurement of the Radiative Capture and Fission cross Section Ratios for U235 and Pu239 in the Resonance-Neutron Energy Region, by Yu. V. Ryabov, 8 pp.
RUSSIAN, per, At. Energy, Vol 24, No 4, 1968, pp 351-362.

P911252966-V
AEC-BNL-Tr-219

Investigation of the Ionization and Discharge of Metal Ions by Means of Radioactive Indicators, by V. V. Losyev, 7 pp.
RUSSIAN, per, Dokl. Akad. Nauk SSSR, Vol 100, 1955, pp 111-114.
AEC-UCRL-Tr-1376

Radiation Damage in Diamond, by V. A. Nikolaenko, 24pp.
RUSSIAN, rpt, IAE-1094, 1966. P911034168
AEC-LB-G-2582

1.

Scientific Nuclear Science & Technology (Contd)

Direct and Inverse Photonuclear Reactions on R¹⁵ and O¹⁵ Nuclei, by h. A. Zhusupov and R. A. Yeraszhyan, 12 pp. RUSSIAN, mt, JINR-P4-3674, 1968. A:C-5.,L-Tr-213 P911253068-V

Principles of Automatic Control Increase Accelerate Gold Ak, Source Unknown. .500189768-v Energy, by A. L. Mints, 14 pp. Dept of Navy 210 tr 2616 Energy, by A. L. Mints, 14 pp.
RUSSIAN, per, <u>Priroda</u>, Apr 1968, pp 8-15. JPRS 46039

Radiation Polymerization of Hexafluropropylene, by A. I. Skobina. RUSSIAN, bk, Radiats, Khim Polim. Mater. Simp., Moscow, 1964, pp 126-128. *FTD-HT-23-851-68C

Deformation of the Spectrum of Fast Neutrons in Concrete and Water, by Yu. A. Yegorov, RUSSIAN, rpt, Voprosy Fiziki Zashchity Reaktorov. Sbornik Statey. Gosatomizdat, Moscow, 1963, pp 190-192. P100242368-V pp 190-192. FTD-MT-24-257-67

experimental Study of the Propagation of Slow Neutrons Close to the Source in the Unbounded Atmosphere, by S. F. Dogtyarev, V. I. Tarasov, 5 pp. RUSSIAN, per, Voprosy Fiziki Zashchity Reaktorov. Sbornik Statey, No 2, 1966, pp 206-209. F100244568-V FTD_NT-24-354-6?

Problems of Radiation Safety in the Storage and Transport of Radioactive Isotopes, by A. V. Terman, lhé pp RUSSIAN, bk, Voprosy Radiatsionnoy Bezopasnosti Pri Khranenii I Perevoske Radioaktivnykh Isotopov 1964, pp 1-135 Plo0164668-V FTD-HT-67-155

The Separation of Stable Isotopes, by Wang Chon, CHINESE, per, Hua lisouh Tung Pao, No 8, 1963, pp 458-468. P911255968-V ALC-K-tr-38

Scientific Nuclear Science & Technology (Contd)

Phenix, by H. Rozenhole, 28 pp. FRENCH, per, Energie Mucleaire, Vol 10, No 2, 1968, Dir 65-75. P911255663-V AEC-Tr-6948

The Nuclear ropulsion Mant for the TI rahm. by A. Schneler, T. Weisbrodt, 37 pp.

The Development of Fuel Elements for Fast Breeder Peactors, by H. Beisswenger et al. 423 pp. UER AN, rpt, KFK-700, Dec. 1967. AEC-EURFAR-472 P911252868-V

Transmission of Fast Electrons Through Thick Layers of Matter, by Dietrich Harder, 145 pp. GERMAN, thesis, Presented to Faculty of Matural Sciences of Julius-haximilian Univ. of durzburg, P911255768-V AEC-AHL-Tr-603

Methods and Means for Measuring Radiation Dosage, by Arthur Leipniker, 5 pp. HUNGARIAN, np, Polgari Vedelem, Budapest, 29 June 1968, pp 2-3, Supplement. JPRS 46445

Basic Research on Gaseous Diffusion Separations, by Kunio Higashi, 152 pp.

JAPANESE, Thesis, Dept. Nucl. Energy, Kyoto University, Kyoto Japan, Nov. 1966.

AEC-K-Tr-37

P9112489-68-V

Study on the Intergration of a Marine Reactor Plant, by Yoshihisa Tanaka, 17 pp.
JAPANESE, rpt, Japan Atom, Energy Research
Instit., Feb. 1968, P911255068-V AEC-NSJ-tr-105

Studies for Safety Analysis of Loss-of-Coolant Accidents in Light-Water Power Reactors, by dideo Fujie, Atsuo Yamanouchi et al., 21 pp. JAPANESE, rpt, Japan Atomic Energy Rosearch Instit, March 1908. AEC-MSJ-tr-112 P911255168-V

Advanced Thermal Reactors and Fuel Cycle, by Hiroji Mochizuki, Ryokichi Tanaka, 13 pp. JAPANESE, rpt, Japan Atomic Energy Research Instit., May 1968. P911255268-V

Scientific
Nuclear Sciences & Technology (Contd)

Testing for Radioactive Contamination Regulated, 6 pp. SERBO-CROATIAN, per, Sluzbeni list SFRJ, Belgrade, 31 July 1968, pp. 640-642.
JPRS 46421

Activities at the Lop Nor Nuclear Base Cease, no author.
TIAWAN, np, Chen Hsin Hsin Wen Pao, No 6388, 8 Apr 1968, p 1.
*FTD-HT-23-846-68C

Physics

Optical Properties of Thick Layers of a Uniform Dispersing Medium, by G. V. Rozenberg. 34 pp. RUSSIAN, rpt. AN BSSR. Institut Fiziki. Spektroskopiye Svetorasseivayushchikh Sred, 1963, pp 5-36. Pl00243268-V FTD-MT-24-310-67

Calculation of the Debye Temperature for Crystals of Arbitrary Symmetry, by B. G. Bystrova.
RUSSIAN, per, AN BSSR. Vestsi. Seryya Fizika-Matematychnykh Navuk, No 1, 1967, pp 104-110.
*FTD-HT-23-873-68C

Symmetrical Loading of an Infinite Plate Weakened by Three Circular Holes, by M. Z. Narodetskiy, 11 pp. RUSSIAN, per, AN GRUZSSR.

Soobshcheniya, Vol 40, No 2, 1965, pp 295-302
Pl00205968-V
FTD-HT-67-78

Kinetics of the Photoluminescence of Grystal Phosphors, by V. V. Antonov-Romanovskiy, 418 pp. RUSSIAN, per, An SSSR. Fizicheskiy Institut, 1966, pp 1-324. P100239968-V FTD-HT-67-004-92

Scientific Physics (Contd)

Electrical Protection of Closed Solenoid, by P. Ya. Burchenko, Ye. D. Volkov, 5 pp.
RUSSIAN, bk, AN SSSR. FizikoTekhnicheskiy Institut. Khar'kov,
1966, pp 1-6
P100200968-V
FTD-MT-67-85

Radial Diffusion of Electrons With Energy Greater than 100 Kev in the Outer Radiation Belt, by S. N. Vernov, S. N. Kuznetsov.
RUSSIAN, per, Akademiya Nauk SSSR, Geomagnetizm 1 Aeronomiya, Vol 7, No 3, 1968, pp 401-411.
P910225066-V
Sci Tech Info Facility
ST-PF-10732

Aerodynamic Characteristics of a One-Chamber Plasmatron with Vortex Gas Stabilization and Its Effect on Arc Behavior, by A. D. Lebedev. RJSSIAN, per, AN SSSR. Sib. Otd. Izv. Ser Tekhn n, No 1, 1967, pp 53-59.
*FTD-MT-24-318-63

Oscillations and Heating Of Small Plasma Clusters, Impinging on an Axially-Symmetrical Magnetic Field, by N. A. Khizhnyak, A. A. Vodyanitskiy.
RUSSIAN, per, AN UKRSSR, Fiziko-Tekhnicheskiy Isnt.
Doklady, No 114, 1964, pp 1-9. Pl00253868-V

General Boundary-Value Problems for Parabolic Systems with Increasing Coefficients, by V. r. Lavrenchuk.
RUSSIAN, per, A. UkrkSk. Dopovidi. Seriya A. Fizyko-Tekhnichni ta Latematychni Mauky, No 3, 1968, pp 238-243.
*FTD-HT-23-807-68C

The Kinetics of Recrystallization in Highly Deformed Monocrystals of Rickel and Niobium, by L. N. Larikov, Ye. E. Zasimchuk, 9 pp.
RUSSIAN, bk, AM UKRSSR. "Fazovyye Prevrashcheniya V Motallakh I Splavakh", 1965, pp 118-126.
P100230168-V
FTD-HT-23-520-67

Certain Problems of Physics of Thin Films, by N. G. Nakhodkin, 24 pp.
RUSSIAN, per, An UKRSSR. Fizika
Metallicheskikh Plenok, 1965, pp 4=39.
Pl00244368-V
FTD-MT-24-261-67

Cavitation and Certain Problems in Hydrodynamics, by V. M. Ivchenko, 12 pp.
RUSSIAN, bk, AN UKRSSR. Issledovaniya
Po Prikladnoy Gidrodinamike, 1965, pp 70-77.
P100228468-V
FTD-HT-23-586-67

On the Problem of Plasma Acceleration in Crossed Fields, by N. A. Khizhnyak, 11 pp. RUSSIAN, per, An UKRSSR. Issledovaniye Plazmennykh Sgustkov. Naukovo Dumka, 1965, pp 137-148. Pl0021,1068-V FTD-HT-23-819-67

Interaction of Modulated Flux With Plasma, by Ya. B. Faynberg, V. D. Shapiro, 11 pp. RUSSIAN, per, An UKRSSR. Vzaimodeystviye Puchkov Zaryazhennykh Chastits s Plazmoy, 1965, pp 143-155. Pl00244168-V FTD-NT-24-249-67

Excitation of Magnetosonic Waves in Colliding Plasma Fluxes, by D. G. Lominadze, K. N. Stepanov, 4 pp.
RUSSIAN, per, An UKRSSR. Vzaimodeystviye Puchkov Zaryazhenrykh Chastits s Plazmoy.
1905, pp 177-181. PICOZAA158-V

Longitudinal Oscillations in Bultivelocity
Plasme Beam, by N. S. Repalov, N. A. Khizhnyak,
8 pp.
RUSSIAN, per, An UKUSSR. Vzaimodeystviye
Puchkov Zaryazhennykh Chastits s Plasmoy,
1965, pp 186-195. Ploozuki68-V
FTD-NT-24-249-67

Instability of Plasma Discharge With Oscillating Electrons, by O. S. Pavlichenko, L. A. Dushin, 12 pp.
RUSSIAN, per, An UKRISSR. Vsaimodeystvive
Puchkov Zaryashennykh Chastits & Plasmoy,
1965, pp 201-216. Ploozum168-V
FTD-1T-24-249-67

Scientific Physics (Contd)

Calculation of Loss of Total Pressure in Diffuser Channels, by A. Sh. Dorfman, 6 pp. RUSSIAN, per, Energomashinostroyeniye, No 6, 1966, pp 29-31. Pl00217968-V FTD-HT-23-1052-67

Strength and Plasticity of weld Joints Operating in Contact with Liquid Lithium, by Ya. K. Bebkovich, V. F. Shatinskiy, 18 pp. RUSSIAN, per, Fiziko-Khimicheskaya Nekhanika Haterialov, Vol 4, No 1, 1968, pp 3-21.

JPRS 46254

Approximate Calculation of Non-Steady-State Fusion of Vitreous Materials, by S. K. Matveyev, 8 pp. RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol 11, No 6, 1966, pp 730-736. Pl00240768-V FTD-HT-23-791-67

An Electrical Analog for Nonstationary Heat Exchange in a Dispersed System, by N. V. Antonis'in.

RUSSIAN, per, <u>Inzhenerno-Fizicheskiy Zhurnal</u>, Vol 12, No 5, 1967, pp 592-598.

*FTD-HT-23-857-68

Ignition and Self-Ignition of Reactive Substances under Ideal Thermal Contact Conditions, by A. M. Grishin.
RUSSIAG, per. <u>Inzhenerne Fizicheskiy Zhurnal</u>, Vol 13, No 3, 1967, pp 345-352.
ACSI J-5068
FSTC-HT-25-139-609

The Length of a Supersonic Ejector Mixing Chamber with a Zero Ejection Coefficient, by B. A. Balanin.

RUSSIAN, per, <u>Inzhenerno-Fizicheskiy zhurnal</u>, Vol 13, No 4, Oct 1967, pp 564-567.

*FTD-MT-24-346-68

Application of the Hydrodynamic Analogy to Flow in a Supersonic Nosale, by S. V. Shteyman. RUSSIAN, per, Inshenerne-Fisicheskiy Zhurnal, Vol 14, No 2, 1968, pp 351-353. *FTD-HT-23-300-68

Axisymmetrical Vibrations of a Gas in a Cylindrical Container with the Taking Into Account of the Elasticity of Its End Wall, by V. M. Lyubimov, 8 pp. RUSSIAN, per, Inzhenernyy Zhurnal, Vol 5, No 4, 1965, pp 691-696.
P100219868-V
FTD-HT-23-729-67

Lesser Free Vibrations of Elastic Shells of Rotation, by G. I. Pshenichnov, 7 pp.
RUSSIAN, per, <u>Inzhenernyy Zhurnal</u>, Vol 5, No 4, 1965, pp 685-690.
P100219868-V
FTD-HT-23-729-67

The Resistance of a Flat Plate Located Normal to the Flow of Greatly Rarefied Gas, by V. A. Perepukhov, li pp RUSSIAN, per, Inzhenernyy Zhurnal, Vol 5, No 5, 1965, pp 8i41-853 Pl00207868-V FTD-MT-67-33

Experimental Investigation of Plastic Deformations Under Complex Loads, by V. I. Maksak, G. A. Doshchinskiy, 8 pp.
RUSSIAN, per, Inshenernyy Zhurnal, Mekhanika
Tverdogo Tela, No 5, 1966, pp 118-122.
P100242668-V
FTD-MT-24-187-67

Phonon Dray in Indium and Gallium Antimonides, by D. Kh. Amirkhanova, R. I. Bashirov, 10 pp.
RUSSIAN, per, AN AZERBSSR. Isvestiya.
Seriya Fisiko-Hatematicheskikh I
Tekhnicheskikh Nauk, No 6, 1963, pp 59-65
P100200268-V
FTD-HT-66-776

Scientific
Physics (Contd)

Investigating Thermal Conductivity of Alloyed Gallium Arsenide, by M. I. Aliyev, G. T. Akhmedli, 9 pp. RUSSIAN, per, AN AZERBSSR. Izvestiya. Seriya Fiziko-Tekhnicheskikh I Matematicheskikh Nauk, No 5, 1964, pp 49-55
Pl00202268-V
FTD-HT-67-198

Tuned Filter in a Waveguide, by P. Kard. RUSSIAN, per, AN EstSSR. Izvestiya. Fizika, Matematika, No 3, 1967, pp 330-336.
*FTD-MT-24-342-68

Mixing Processes in a System of Two Parallel Jets, by F. Frishman, 6 pp.
RUSSIAN, per, AN ESTSSR. Izvestiya. Seriya
Fiziko-Matematicheskikh i Tekhnicheskikh Nauk,
Vol 15, No 2, 1966, pp 207-210
Pl00218568-V
FTD-HT-23-989-67

Thermally and Optically Stimulated Phenomena in Cadmium-Sulfide Single Crystals, by A. Aydla, Ya. Kirs, 10 pp. RUSSIAN, per, AN ESTSSR, Izvestiya. Seriya Fiziko-Matematicheskikh I Tekhnicheskikh Neuk, No 3, 1966, pp 354-359 P100205668-V FTD-HT-67-199

Calvanoragnotic and Thermoragnetic Properties of Callium Arsenide After Diffusion of Copper, by C. V. Yemel'yanenko, F. E. Klotyn'sh, 12 pp. RUSSIAL, pec, Ad LATSSR. Investiya. Seriva Finicherkikh i Tekhnicheskikh l'euk, No 5, 1905; pp. 47-56. Piocestyks-V

Concerning the Flow Stall Boundary in Compressor Vane Systems, by R. M. Fedorov, 11 pp.
RUSSIAN, per, AN SSSR. Investive.
Energetika I Transport, No 4, 1965, pp 91-97.
Pl00219068-V
FTD-HT-67-187

Supersonic Flow of a Combustible Gas Mixture Over a Sphere, by S. M. Gilinskiy, Z. D. Zapryanov, 13 pp. RUSSIAN, per, AN SSSR. Izvestiya.

Mekhanika Zhidkosti I Gaza, No 5, 1966, pp 8-13
P100208068-V
FTD-HT-23-1068-67

Wave Conditions of a Flow of a Thin Layer of Viscous Liquid Under the Effect of Gravitation, by V. Ya. Shkadov, 13 pp.

RUSSIAN, per, An SSSR. Izvestiya. Mekhanika
Zhidkosti i Gaza, No 1, 1967, pp 43-51.

Plochi768-V
FTD-MT-24-243-67

Calculation of the Effect of an Arbitrary Dynamic Load on Circular and Annular Plates, by Ye. M. Gershunov, 9 pp.
RUSSIAN, per, An SSSR. Izvestiya. Mekhanika
i Mashinostroyeniye, No 6, 1964, pp 89-95.
Pl00240668-V
FTD-HT-23-794-67

Cyclical Ductility as a Criterion for the Sensitivity of Metal to Stress Concentration in Fatigue, by S. Ye. Gurevich.

RUSSIAN, per, AN SSSR. Izvestiya. Wetally,
No 1, 1963, pp 148-154.

*FTD-MT-24-351-68

Experimental Investigation for the Transformation of Laser Radiation by Optical Systems, by K. Kelov
RUSSIAN, per, Izvestiya Akademii Nauk Turkmenakoi SSR, Seriya Fiziko-Tekhnicheskikh, Khimicheskikh in Geologicheskikh Nauk 1967, No 4, 1967, pp 35-44.
*FTD-MT-24-343-68

Thermal Operation of the Additional Components of a Burner System with Self-Carbonization of the Gas, by G. I. Demin.
RUSSIAN, per, IVUZ. Chern Met, Vol 10, No 5, 1967, pp 163-168.
*FTD-MT-24-325-68

Conditions for the Occurrence of High Voltage Folarisation in Homogeneous Hedia, by Yu. A. Kopylov.
RUSSIAN, per, IVIZ, Flatka, No 12, 1967, pp 21-29.
*FTD-HT-23-809-68

Scientific Physics (Contd)

A Study of Tropospheric Absorption of Radio Waves by Radio Astronomy Methods, by A. G. Kislyakov, K. S. Stankevich, 28 pp. RUSSIAN, per, <u>Izvestiya Vysshikh Uchebnykh Zavedeniy, Radiofizika</u>, Vol 10, Nos 9-10, 1967, pp 1244-1265.

JPRS 46, 311

Experimental Determination of the Basic Parameters of a High-Speed Hammer, by Yu. P. Sogrishin, N. F. Kobyakovskiy, 6 pp. RUSSIAN, per, Kuznechno-Shtempovo-chnoye Proizvodstvo, No I, 1966, pp 23-25.
P100219568-V
FTD-HT-23-921-67

Holography in Plasma Diagnostics, i Z. N. Zaydel, G. V. Ostrovskaya et al, 25 pp.
RUSSIAN, rpt, Leningrad No. 085, Fc. 1968.
pp 1-28.
AEC-Np-Tr-1679 P911253768-V

The Quality Modulator of an Optical Qualium Generator on a Ruby, by Yu. V. Baythrodin, 3 pp.
RUSSIAN, per, Mekhanizatsiya i Avtomaticatsiya Upravleniya, No 4, 1966, pp 40-12.
Ploce18668-V
FTD-HT-23-735-67

Calculation of Nonsteady Temperature Fields in Structures by the Nethod of Noments, by B. N. Avkhimovich, 32 pp.
RUSSIAN, per, Netody Raschetov Temperaturnykh Poley i Teploisolyatsii Letatel nykh Apparatov.
Sbornik Statey, 1966, pp 3-34. F100241258-V

The Difference Hathod of Calculating the Konsteady Heating of a Structure, by V. V. Chekalin, 26 pp.
HUSSIAN, per, Matchetov Temperaturnykh Poley i Teploisolyatsii Letatel nykh Apparatov.
Sbornik Statev, 1966, pp 77-101. F100241268-Y

Experimental Determination of Heat Conductivity of Argon Plasma, by E. I. Asinovskiy.

RUSSIAN, bk, Hesbaundpoenty Simposym po Sygvetyma

1 Primenentyu Hiskotemperaturnov Plasma pyp khkh.

Hesbaunappenty ingresse po Teoreticheskov i Prikladnov Khimiy. 1965, pp 1-23.

170-10-24-317-68

į

Pending Calculations for Structurally Orthotropic Plates, by S. A. Klimov, 43 pp. RUSSIAN, per, Moscow. Gosudarstvennyy Institut po Proyektirovaniyu, Issledovaniyu i Ispytaniyu Stal'nykh Konstruktsiy i Mostov, No 8, 1964, pp 116-153. P100217468-V FTD-HT-23-624-67

One Example of the Calculation of Supersonic Gas Flow Near the Axis of Symmetry, by U. G. Pirumov, V. N. Suvorova, 8 pp.
RUSSIAN, per, Moscow. Universitet.
Vychislitel'nyy Tsentr. Sbornik Rabot, No 4, 1965, pp 52-61.
P100229768-V
FTD-HT-67-412

Correction of the Effect of the Boundary Layer on the Flow in Nozzles With a Broken Generatric, by L. V. Pchelkina, V. K. Solodkin, 3 pp. RUSSIAN, per, Moscow. Universitet. Vychislitelnyy Tsentr. Sbornik Rabot, No 4, 1965, pp 103-107. P100241168-V FTD-HT-67-000-91

Estimate of the Effect of Ionization Losses on Electron Containment Time in Hagnetic Hirror Traps, by V. G. Ponomarenko, L. Ya. Trainin, et al. 6 pp. RUSSIAN, rpt, Hovosibirsk No 154, Sept. 1967, pp. 1-9 ANG-TP-Tr-1677 P911253863-V

Modia, by V. I. Karpman
RUSSIAN, per, Novosibirsk, 1968, pp 1-6.
*AFCRL

Allowance for Backscattering of a Laser Beam Along Inclined Trajectories, by I. N. Davydove. RUSSIAN, per, <u>Optiko-Nekhantchaskava Prosvahlennost'</u>, No 2, 1968, pp 6-10. *FTD-HT-23-810-68

A Laser System Using an Electrooptic Quartz Q-Switch, by A. P. Zharkov
RUBSIAN, per, Optiko-Nekhanicheskava Promyshlennost', No 3, 1908, pp 33-33.
#FTD-MT-24-332-68 Scientific Physics (Contd)

Principles of the Physics of Semiconductor Devices, by Ya. A. Fedotov, 601 pp. RUSSIAN, bk, Osnovy Fiziki Poluprovodnikovykh Priborov, 1964, pp 1-655. Pl00220468-V FTD-HT-67-194

On the Therman Radioemission of Mercury, by Yu. N. Vetukhnovskaya, A. D. Kuzmin, 11 pp. RUSSIAN, rpt, Phy. Inst. P. N. Lebedev, June 1968.

P20023468
RSIC-818

Bending of Circular Orthotropic Plate of Variable Thickness, by N. M. Maslov, 9 pp.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 1, No 2, 1965, pp 67-73
Pl00202h68-V
FTD-HT-67-3h2

A Model for the Determination of Thermoelectric Characteristics for Materials Reinforced with Fibers, by A. A. Kilchinskii, 16 pp.
RUSSIAN, per, Prikladnaya Hekhanika, Vol 1, No 12, 1965, pp 65-74.
P100229968-V
FTD-HT-67-422

Stability and Oscillations of Rectangular Sandwich Plates With Large Cutouts, by G. P. Zinenko, 8 pp. RUSSIAN, per, <u>Prikladneya Mekhanika</u>, Vol 2, No 6, 1966, pp 59-63 P100208268-V FTD-HT-67-343

On Blastic-Plastic Equilibrium in Shells of Revolution Under Finite Deflections, by I. S. Chernyahenko, 17 pp. RUSSIAH, per, <u>Prikladnava Mekbanika</u>, Vol 2, No 9, 1966, pp 25-36 P100207066-V FTD-HT-67-344

Designing Cylindrical Stringer-Stiffened Shells of Minimum Weight Under Axial Compression, 11 pp. RUSSIAN, per, <u>Prikladnaya Mekhanika</u>, Vol 2, No 9, 1966, pp 37-43 P100207068-V FTD-HT-67-344

Oscillations of a Supersonic Gas Flow in a Channel of Finite Length With Oscillating Walls, by D. A. Derbentsev, 6 pp.
RUSSIAN, per, Prikladnaya Mekhanika,
Vol 2, No 9, 1966, pp 124-127
P100207068-V
FTD-HT-67-344

Transcritical Deformation of a Cylindrical Shell on Impact, by V. I. Borisenko, A. I. Klokova, 9 pp. RUSSIAN, per, Prikladnaya Mekhanika, Vol 2, No 10, 1966, pp 29-35 P100205768-V FTD-HT-67-345

Oscillations of Non-Linearly Elastic Bodies with Hysteresis, by N. V. Vasilenko. RUSSIAN, per, Rasseyanie Energii Pri Kolebaniyakh Uprug. Sistem, 1966, pp 8-18.

Natural Vibrations of Shells in a Fluid, by V. S. Gontkevich, 79 pp. RUSSIAN, bk, Sobstvennyye Kolebaniya Obolochek V Zhidkosti, 1964, pp 1-103. P100230068-V PTD-HT-23-1003-67

Theory of Viscous-Pluid Jets, by
L. A. Vulie, V. P. Kashkarov, 527 pp.
RUSSIAN, bk, <u>Teoriva Struy Vyaskoy</u>
Zhidkosti, 1965, pp 1-431
P100199568-V
PTD-HT-23-669-67

Scientific Physics (Contd)

Quick-Response neat Gage Orgres, by I. Ya. Zalkind, 8 pp. RUSSIAN, per, <u>Teploenergetika</u>, Vol 7, No 7, 1960. Dept of Commerce Nat Bureau of Standards

Hydrodynarics and Heat Exchange of Tuirled Flow Between Two Coaxial Cylinders, by V. N. Zmeykov, B. P. Ustimenko, 15 pp. RUSSIAN, per, Teplo- I Massoperenos, Vol 1, 1965, pp 148-163. P100220968-V FTD-HT-66-175

Experimental Investigation of Friction and Hoat Exchange at Flow of Gas in Diffused Channel with Cocled Malls in the Presence of Combustion, by P. H. Romanenko, A. N. Oblivin, 9 pp.

RUSSIAN, per, Teplo- I Massoperenos, Vol 1, 1965, pp 164-171. P100220968-V FTD-NT-66-175

Generalization of Dependences Pertrining to Heat Transfer and to Loss of Pressure During Transverse Flow of Gas Past a Bundle of Finned Tubes, by I. Vampola, 10 pp. RUSSIAN, per, Toplo- I Massoperence, Vol 1, 1965, pp 260-269.

P100220968-V
FTD-NT-66-175

Heat Exchange During Condensation of Potassium and Sodium Vapor, by V. I. Subbotin, M. N. Ivanovskiy. RUSSIAN, per, Taplo i Massoperanos, 1966, 10 pp. P100247569-V FTD-MC-24-54-68

The Effect of the Character of Ground Surface on the Polarization of Scattered Luminosity of the Sky, by P. H. Boyko, 17 pp.
RUSSIAN, por, Trudy, AH KAZSSR, Astrofisicherkly Unstitut, Vol 3, 1982, pp 149-162.
P100220868-V
FTD-1T-24-279-67

On the Honlinear Flutter of a Plate Pixed Along Its Perimeter, by B. P. Makarov, 8 pp. HUSSIAN, bk, Trudy. AN SSSR. Kasanskiy' Filial Kasanskiy Gosudarstvennyy Universitet. Trudy Konferentsii Po TeoFil Flastin I Obologhek, 1961, pp 220-225 Pl00207368-V PTD-HT-67-217

Experimental Studies of Crystallization of Super-Cooled Clouds by Pyrotechnical Compositions Containing Silver Iodide and Lead Iodide, by Yu. P. Sumin, 13 pp.
RUSSIAN, per, Trudy Glavnoy Geofizicheskoy Coservatorii, No 186, 1966, pp 26-37.

JPRS 46050

Refinement of the Equation for Determining the Calculated Temperature Difference in Convective Bundles with Gas Radiation, by B. D. Doynikov, 8 pp. RUSSIAN, per, Trudy. Kuybyshev.

Aviatsionnyy Institut, No 15, 1963, pp 177-184
P100201168-V
FTD-HT-23-800-67

Method of Integral Relations in the Theory of Turbulent Jet Flows, by A. S. Ginevskiy, 35 pp RUSSIAN, per, Moscow. Tsentral'nyy Aero-Gidrodinsmicheskiy Institut. Promyshlennaya Aerodinsmika, No 27, 1966, pp 5-30 P100207968-V FTD-MT-24-173-67

Nature of Low-Temperature Anomalies of Luminescence of Antiferromagnetic Crystals, by V. V. Eremenko.

RUSSIAN, per. <u>Ukrayins*kwy Fisychnyy Zhurnel</u>.

**Vol 11, No 8, 1966, pp 902-903.

**FTD-HT-23-839-68C

Direct Determination of Sensitivity of Microcrystals to Charged Furticles, by A. P.Zhdanov. RUSSIN, per, Usp. Nauch/Fotogr., No 12, 1966, pp 49-52. *FTD-MT-24-347-68

Problems of Solid State Physics, by Ye, V. Trushin, 3 pp.
RUNSIAN, per. AN SSSR. Vestnik, No 4, 1966,
pp 149-150. P100226558
FTD-HT-23-983-67

Scientific Physics (Contd)

Indexing Slow Electron Diffraction Patters of NaCl, by G. K. Zyryanov RUSSIAN, per, Vestn. Leningrad. Univ 21(16), Ser. Fiz, Khim, No 3, 1966, pp 70-74.
*FTD-MT-24-357-68

Study of Radiation-Induced Polymerisation:V1.
Radiation-Induced Polymerisation of Chloroprene,
by V. S. Ivanov.
RUSSIAN, per, Vectnik Lemingradskogo
Universiteta #22, 1965, pp 154-164.
ACSI J-5028
FSTC HT-23-209-68

The Measurement of Dielectric Properties of Liquids with Large Losses, by V. V. Levin RUSSIAN, per, Vestn. Mosk. Univ. Ser. II, Vol 22, No 1, 1967, pp 23-26.
*FTD-MT-24-330-68

Conference Examines Philosophical Problems in Physics, by A. Ya. Yermolov, B. Ya. Pakhomov, 5 pp.
RUSSIAM, per, Vestrik Moskovskogo Universiteta, Seriya 8, Filosofiya, May-Jun 1968, pp 101-104.
JPRE 46, 344

Space-Energy Distribution of Neutrons in Thick Layers of Iron, by V. P. Mashkovich, V. K. Sakharov, 10 pp. RUSSIAN, rpt. Voprosy Fisiki Zashchity Reaktorov. Sbornik Statey. Gosatomisdat, Noscow. 1963, pp 182-190. P100242868-V FTD-MT-24-257-67

Angular Energy Spectra of Fast Neutrons Behind Iron Shields, by T. A. Germogenova, A. P. Suvorov, 13 pp. RUSSIAN, per, Voprosv Fisiki Zashchitv Resktorov, Shornik Statey, No 2, 1966, pp 74-87. P100243668-V PTD-NT-24-253-67

Problems of Plasma Theory, by B. B. Kadentsev, 211 pp.
RUSSIAH, per, Voprosy Terril Flasmy, No 4, 1966, pp 183-330. Pico223168-V FTD-HT-23-778-67

Filiform Single Crystels of Refractory Oxides and Their Use, by P. P. Budnikov, D. B. Sandulov, 17 pp.
RUSSIAN, per, Vsesoyuznoye Khimicheskoye Obahchestvo. Zhurnal, Vol 10, No 5, 1965, pp 506-511
P100200068-V
FTD-HT-23-497-67

Device for Automatically Choosing the Selection Angle Shortwave Communication System With Spatial Beam Selection and Relative Phase Keying, by Ye. F. Kammev, P. V. Belov, 4 pp. RUSSIAN, per, Vsesoyuzhaya Nauchnaya Sessiya, Posvyashchemnaya Dnyu Padio. 22nd, Moscow. Sektsiya Teorii i Tekhniki Peredachi Diskretnykh Signalov, 1966, pp 32-36. P100245568-V FTD-1T-24-223-67

The Basic Properties of Laterials and Design which Determine the Service Life of Nozzle Elades, by A. A. Rabinovich.

RUSSIAN, rpt, Vsesoyuznoye Nauchno-Tekhnicheskoye Soveshchaniye po Voprosam Prochnosti Laterialov i Konstruktivnykh Elementov pri Vysokikh Temperaturakh, 4th Kiev. Termoprochnost Laterialov i Konstruktivnykh Elementov; Laterialy Soveshchaniya, No 4, 1967, pp 477-484.

*FTD-HT-23-795-68

Resonance Installation for Testing
Fatigue of Materials at High Temperatures,
by A. V. Antonovich, 7 pp.
RUSSIAN, per, Zavodskaya Laboratoriya,
Vol 21, No 2, 1955, pp 231-234,
P100205568-V
FTD-HT-67-445

Measurement of the Average Coefficient of Heat Transfer for Liquid Metals by the Heat-Exchanger Method, by D. I. Gremilov, D. M. Kalachev, 9 pp. RUSSIAN, bk, Zhidkiye Metally.

Sbornik Statey, 1963, pp 158-164
P100206368-V
PTD-HT-67-353

Focusing a Holocular Beam by Heans of a Hotorogeneous Magnetic Field, by H. 1. Korsmaskly, I. .. rokel, 16 mg. Husslan, per, Zh. Eksp. Teor. Fiz., Vol 21, 1951, pp. 25-37. pull248668-V AEC-NRC-TT-1312

Se matific (Cortd)

Physicochemical Eddeling of Information and Thought Processes, by N. I. Kobozev, N. V. Lomonosov, 9 pp. RUSSIAN, per, Zhurnal Fizicheskov Khimii, May 1968, pp 1045-1051.

JPRS 46,248

Thermodynamic Constants of Difficultly Soluble Sulfates, Carbonates, Chromates, Bromates, Iodates, exalates and other Metal Salts, by N. P. Zhuk, 10 pp.
RUSSIAN, per, Zhurnal Fizicheskoi chimii SSSR, Vol 28, No 9, 1964.
Dept of Commerce
Nat Bureau of Standards

Comparing the Dispersity of a Latent Image Formed by the Action of Light and Action of Ionizing Particle, by A. L. Kartuzhanskiy, 9 pp. RUSSIAN, per, Zhurnal Nauchnoy I Prikladnoy Fotografii I Kinematografii, Vol 9, No 4, 1964, pp 276-282 P100206168-V FTD-HT-23-483-67

Possibility of Investigating the Transmission of a Narrow Beam of Light Across the Surface and Through the Sea by the Method of Photographic*, by L. I. Kastal'skiy, 10 pp RUSSIAN, per, Zhurnal Nauchnoy I Prikladnoy Fotografii I Kinematografii, Vol 11, No 5, 1966, pp 359-369 P100202968-V FTD-HT-67-480

Approximate Solution of Problem on Stationary Induced High-Frequency Discharge in Closed Volume, by V. A. Grusdev, R. Ye. Rovinskiy, 12 pp.
RUSSIAN, per, Zhurnel Prikladnoy Hekhaniki 1
Tekhnicheskoy Fisiki, No 1, pp 143-150.
P100245068-V
FTD-MT-24-332-67

The Influence of Hall Currents During Acceleration of a Conducting Gas in its Intrinsic Magnetic Field, by G. M. Bam-Zelikovic. 11 pp.
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki I Tekhnicheskoy Fiziki, No 4, 1965, pp 27-34
P100205368-V
FTD-HT-67-458

Slow Oscillations of the Potential in Electron-Ion Fluxes Mear The Emitter, by V. M. Smirnov, 9 pp. RUSSIAN, per, <u>Zhurnal Prikladnoy Mekhaniki</u> <u>i Tekhnicheskoy Fiziki</u>, No 1, 1966, pp 8-1/4. P100222268-V FTD-HT-67-457

Some Methods of Solving a Nonlinear Integro-Differential Equation on the Theory of Jet Flow of an Ideal Fluid, by G. N. Pykhteyev, 29 pp.
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki I Tekhnicheskoy Fiziki, No 2, 1966, pp 72-86
P100206568-V
FTD-HT-23-496-67

The Effect of a Magnetic Field on the Stagnation-Point Flow Past a Blunt Body in the Presence of Ablation of an Electrically Conducting Shield, by E. A. Tropp, 11 pp.
RUSSIAN, per, Zhurnal Prikladnoy
Mekhaniki I Tekhnicheskoy Fiziki,
No 3, 1966, pp 17-25
P100205268-V
FTD-HT-67-L55

Calculation of Turbulent Heat Exchange on a Semipermeated Surface When a Foreign Gas is Blown In, by S. S. Kutateladze, A. I. Leont'yev, 5 pp.
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki I Tekhnicheskoy Fisiki, No 5, 1966, pp 123-125.
P100229368-V
FTD-HT-23-928-67

Scientific Physics (Contd)

A Two-Dimensional Resonator Laser, by B. B. Boyko.
RUSSIAN, per, Zhurnal Prikladnoy Spektreskopii, Vol 8, No 2, 1968, pp 351-353.
*FTD-HT-23-815-68

Photomultiplier, by G.E. Levin, 3pp RUSSIAN, Patent 175,570. P100229868-V FTD-HT-23-897-67

A Method of Obtaining An Electric Conducting Layer on the Surface of Dielectrics, by B. P. Kryzhanovskiy, 2 pp. RUSSIAN, Patent No 180670 (839425/24-7) Class 21c, 2/34, Pl00226868 FTD-HT-23-570-67

A Method for Inspecting the Surface of Internal Cavities of Spherical Parts, by V. P. Korotkov, 2 pp. RUSSIAN, Patent No 180829 (926090/26-10), Class 42h, 35/03 P100217168-V FTD-HT-23-1109-67

A Method of Developing the Projections of Separate Objects From a Complex Multiline Image, by V. S. Fayn, 2 pp.
RUSSIAN, rpt, Patent 180859 (750178/26-24)
Class 42M, 14/04, pp 1-2.
Pl00218468
FTD-HT-23-1115-67

Semiconductor Quantum Generator With External Resonator, by N. G. Basov, O. V. Bogdankevish, 16 pp. RUSSIAN, per, <u>Preprint No 109</u>, Moscow, 1968, pp 1-16.
JPRS 46504

Effect of Optical Glass Properties on the Cooling Process, by V.I. Primenko. UKRAINIAN, per, <u>Dopov. AN UKRASR</u>, No 10, 1966, pp 1321-1322. *FTD-HT-23-844-68C

Effect of Redistribution of Electrons in a Plasma Waveguide in a Field of a Strong Electromagnetic Wave, by A. M. Fedorchenko, 6 pp.
UKRAINIAN, per, Ukrayins'kyy
Fizyohnyy Zhurnal, Vol 11, No 2, 1966, pp 152-158
P100206968-V
FTD-HT-67-401

Movement of a Plasma Stream Through a Nonuniform Transverse Magnetic Field, by K. D. Synel'nykov, V. P. Goncharenko, 5 pp. UKRAIHAN, per, <u>Ukrayins'kyy Fizychnyy Zhurnal</u>, Vol 11, No S, 1966, pp 825-828. P100222368-V FTD-HT-23-926-67

Effective Outline of Electron Scattering in Plasma; In Helium and in Argon with a Mixture of Cesium Varor, by I. M. Polushkin, D. Ya. Dudko, 8 pp.
UKRAINIAN, per, Ukrayins'kyy Fizychnyy Zhurnal, Vol 11, No 9, 1966, pp 950-955. P100222768-V FTD-HT-23-919-67

Measurements of Resistivity and Hall Effect in Silicon Carbide by the Van der Pauw Method, by Fung Si-chi CHINESE, per, Acta Physica Sinica, Vol 22, No 9, 1966, pp 967-975.

Minority Carrier Lifetime in Silicon Carbide by the Electro-Luminescence Method, by Yui Shou-dung CHINESE, per, Acta Physica Sinica, Vol 22, No 9, 1966, pp 976-981. *AFCRL

The Experimental Observation of Dislocation Multiplication in Silicon Crystals, by Liu Chen-mao CHINESE, per, Acta Physica Sinica, Vol 22, No 9, 1966, pp 1077-1097.

The Structure of the Light Stimulator by Ming-Kao Ho, 9 pp. CHIMESE, per, K'O Haush Hua Pao, No 1, 1963, pp 11-12 P100206868-V FTD-HT-67-215

Scientific Physics (Contd)

Applications of Lasers, by Cheun Hsiang, 2 pp. Chilless, per, Kec Hsueb Hua Pac, No 1, 1963, pp 13-15. Pi00272569-V FTD-HT-23-1024-67

Recent Foreign Developments in Laser Technology, by Wu-Han Huang, 21 pp. CHINESE, per, K'o Hsueh T'ung Pao, No 2, 1965, pp 166-174 Pl00208968-V FTD-HT-67-216

The Condition for the Formation of the Secondary Shock Wave in Hypersonic Flow, by Han-Hsin Chang, 12 pp.
CHINESE, per, Li Hsueh Hsueh Pac (Acta Mechanica Sinica), Vol 8, No 4, 1965, pp 316-322
P100199868-V
FTD-HT-67-460

Calculation of Thermal Stresses of Shallow Shells, by Ho Kuang-ch'ien. CHINESE, per, Peking, T'u-mu Kung-ch'eng Hsueh-pao, Vol 8, No 1, Jan 1962, pp 1-13. *FTD-HT-23-840-68C

Certain Demands on the Optical Frequency Receivers in Communication Systems Using Coherent Light, by Heng Chien, 13 pp. CHINESE, per, Wu Hsien Tien Chi Shu, No 11, 1965, pp 12-17. P100226168-V FTD-HT-23-606-67

Plasma Flame Heating, by Chin Kai.
CHINESE, por, Mr. Reien Tien Chi Shu, He 4,
1966, r 7.
ACSI 2-3767
TD 2208055167

Spectral Characteristics of the Stimulated Emission of Gallium Arsenide p-n Junctions, by Shou-Wu Wang, Wei-Hua Chuang, 5 pp. CHINESE, per, Wu Li Hsueh Pao (Acta Physica Sinica), Vol 21, No 5, 1965, pp 1077-1079 P100209268-V FTD-HT-67-393

Spin-Related Polarization Effect in Compton Scattering of Relativistic Electrons, by Ching-Fa Lu, 6 pp. CHINESE, per, <u>Wu Li Hsueh Pao</u>, Vol 21, No 11, 1965, pp 1927-1931 P100206468-V FTD-HT-67-394

The Velocity of Dislocations in Silicon Crystals, by Ching Hung, I-Cheng Yeh, llt pp.
CHINESE, per, Wu Li Hsueh Pao (Acta Physica Sinica), Vol 21, No 12, 1965 pp 1968-1976
P100203966-V
FTD-HT-67-395

Pulsed Electrodeless Discharge as a Light Source for Leser Excitation and Observation of the Characteristics of Laser Output, by Tsun-K'uei Chang, 13 pp.
CHIMESE, per, Wu Li Hsueh Pao (Acta Physica Sinica), Vol 22, No 2, 1966, pp 174-182
P100201668-V
FTD-HT-67-392

The Importance of the Anisotropic Model of a Crystal in Dislocation, by Juliana Bastacka, 29 pp.
CZECH, per, Ceskoslovenky Casopis_ro Fysiku, Vol 18, 1968.
Dept of commerce Mat Bureau of Standards

On the Problems of Vacuum Tochnology in the Proparation of Thin Films, by W. Espe, 17 pp. CZECH, per, James Pechanika a Optika, No 10, 1965, pp 305-310. P100221468-V FTD-HT-67-209

Scientific Physics (Contd)

Thin Layers in Optics, by Zd. Knittl, 8 pp.

CZECH, per, Jemna Mechanika A Optika, No 11, 1966, pp 218-220.

P100218768-V

FTD-HT-23-1032-67

Contribution to the Theory of Thermodynamic Simulation of Compressors, by Karel Celikovsky, 24 pp.

CZECH, per, Letnany. Vyzkumny a Zkusebni
Letecky Ustav. Zpravodaj Vzlu, No 1, 1965, pp 3-12.

Pl00217668-V
FTD-HT-23-636-67

Contribution to Research on Losses in the Axial Flow Compressor Stage at Transonic Velocities, by F. Klimes, 11 pp.

CZECH, per, Letnany. Vyzkummy a Zkusebni
Letecky Ustav. Zpravodaj Vslu, No 2,

1965, pp 19-24. Ploczulk68-V

FTD-HT-23-635-67

Experimental Methods in the Study of Heat Transfer at High Temperature, by R. Dvorak, L. Krejei, 10 pp. CZECH, per, Stroinicky Casopis, Vol 16, No 2, 1965, pp 198-205.
P100226968-V
FTD-HT-23-988-67

Contribution to Velocity-Gage Measurement of a Mon-Compressible Fluid in a Turbulent Flow, by Z. Budlovskiy.

CZECH, per, Strojnicky Casopis, No 6, 1967, pp 498-507.

**FTD-HT-23-625-68

Optical Coherent Sources as Quantitative Generators and Quantitative Amplifiers, by J. Bolf, 7 pp. CEECH, per, Svet Vedy (Army), No 7, 1965, pp hill-his. P100227266-V PTD-HT-23-649-67

Study of the Quaternary System B₂O₃-HF-CaO-H₂O at 25 C. I. Liquid-Solid Equilibrium Diagram, by Jean-Louis Leibenguth, 23 pp. FRENCH, per, Bull. Soc. Chin. de France No 12, 1966, pp 3303-3811. p911256368-V AEC-K-Tr-42

Note on Various Theorems Relative to the Ractification of Curves and to the Quadrature of Surface Surfaces, by Augustin Cauchy, 7 pp.
FRENCH, per, Compt. Rend., Vol 13, 1841, pp 1060-1065.

AEC-ORNL-Tr-1984

Some Problems of Safety in the Development of the BR-5, by V. V. Orlov. FRENCH, rpt, Conference Internationale Sur La Surete Des Reacteurs A Neutrons Rapides, 1967, pp 2-36. *FTD-MT-24-365-68

Thermal Protection by Ablation, by H. Lacaze, FRENCH, bk. <u>Doc-Air-Espace</u>, July 1967, pp 23-32. *FTD-HT-23-824-68

Measurements of Surface Waves in Rigid Bodies, by F. Rischbieter GERMAN, per, Acustica, Vol 16, 1965/66, pp 75-83. *AFCRL

hulti-Coloured Display of X-Ray Images Produced in the Electron Probe Microanalyser, by G. Lennarts, H. De Laffolie.
GERLAN, per, <u>DEW-Techn Ber</u>, Vol 6, No 4, 1966, pp 201-207.
HISI 6400

Some Applications of Ultrasonic Image Storage Methods, by F. Michalski. GERMAN, per, <u>Natertal prufung</u>, Vol 10, No 2, 1968, pp 37-42. HB 7450

Studies of Lattice Defects in Neutron-Irradiated Lithium Fluoride, by Hans Peisl, 29 pp.
GERMAN, per, Z. Angew, Phys. Vol 14, 1962, pp 529-536
AEC-UCRL-tr-10251
P911253468-V

Scientific Physics (Contd)

Magnetization-Reversal Losses of Transformer Sheets, by V. Zehler GERMAN, per, Z. angew. Phys., Vol 21, Nov 1966, pp 433-434 BISI 5608

Collisions of Slow Negative Ions with Charge Transfer, by K. Kraus GERMAN, per, Zeitschrift fur Naturforschung, Vol 16a, 1961, pp 1385-1387.
*AFCRL

Time-of-Flight Analysis of a Potassium Atomic Beam Scattered by a Carbon Dioxide Molecular Beam, by J. Gspann GERMAN, per, Zeitschrift fur Naturforschung, Vol 23a, 1968, pp 726-730. *AFCRL

Experimental Investigation on a Hydrogen Arc in a Superimposed Axial Magnetic Field, by C. Mahn.

GERMAN, per, Zeitschrift Fur Naturforschung, Vol 1, 2, No 23A, 1968, pp 667-673, pp 674-880.

*BISI 6646

Mechanism for Electrolysis of Beryllium from KF-2-Be(C₂H₅)₂, by W. Stronmeier. GERMAN, per, Zeitschrift fur Naturforschung. Tubingen, Verlag der Zeitschrift fur Naturforschung, Vol 23b, No 1, 1968, pp 38-41.
*FTD-HT-23-804-68

Electron Spin Resonance in Alkali Halide Crystals Containing Sulphur and Solenium, by A. Hausmann, 14 pp.

GERMAN, per, Zeit. fur Physik, Vol 192 (5), 1966, pp 313-326. P911250468-V

AEC-NRC-TT-1311

Fluid Type Logic Elements, by Carlo Torresan, 15 pp.
ITALIAN, per, Revista di Ingegneria, No 9, 1967, p 715-720 P911250068-V
AEC-SC-T68-1534

Roview on Color latering Functions, by Y. Suglyana. JAPALESE, per, <u>Sloctrotechnical Let Circulars</u>, No 159, 1966, 196 pp. ACSI J-5062 FSTC-HT-23-194-68

The Problem of Simultaneously Evaluating Structure and Stress in Ferromagnetic Materials by Using Magnetic Tests, by A. Karamara, 8 pp.
POLISH, per, Polska Akademia Nauk.
Zeszyty Problemowe Nauki Polskiej,
No 26, 1965, pp 549-558.
P100219668-V
FTD-HT-23-740-67

A Review of the Physical Properties of Some New Semiconductors of the Groups III-V, by B. Seroczynska-Wojas, llt pp.
POLISH, per, Postepy Fizyki, Vol 17, No 1, 1966, pp 29-41
P100204568-V
FTD-HT-67-351

Nuclear Magnetic Resonance and Its Applications, by R. Bulaceamu, S. Trestiamu, 39 pp.
RUMANIAN, per, Revista de Chimie, Vol 17, No 2, 1966, pp 81-91
P100206268-V
FTD-HT-67-461

Harmonic Oscillatory Motion of the System Wing-Conical Fuselage Under Supersonic Conditions, by E. Carafoli, D. Mateescu, 12 pp.
RUMANIAN, per, Studii Si Cercetari De Macanica Aplicata, Vol 23, No 5, 1966, pp 1343-1353.
P100240868-V
FTD-HT-23-872-67

Comparison of Methods of Calculation of Heat and Mass Transfer for Finned Coils, by G. Trapenese, 10 pp. SMANISH, rpt, International Congress of Hefrigeration, 12th Special Mulletin, Vol 47, No 3, 1967. Dept of Commerce Nat Eureau of Standards

Scientific Propulsion & Fuels

To Question About Selection of the Optimum Thrust-Weight Ratio of VTOL With Respect to Lift Engines, by O. K. Bogdanov, V. I. Rudomanov, 4 pp. RUSSIAN, per, An UKRSSR. Gidrodinamika Bol'shikh Skorostey, No 3, 1967, pp 114-118. P100244268-V FTD-MT-24-358-67

Effect of Nozzle Angle on the Efficiency of Impulse Stages, by V. D. Pshenichnyy. RUSSIAN, per, Energomashinostroyeniye, No 12, 1966, pp 20-22. *FTD-MT-24-344-68

Concurrent Discharge of Two Gas Flows Through a Jet Nozzle, by
Ye. D. Sten'kin, 10 pp.
RUSSIAN, per, <u>Izvestiya Vysshikh</u>
Uchebnykh <u>Zavedeniy</u>. <u>Aviatsionnaya</u>
Tekhnika, No 2, 1966, pp 83-89
F100208688-V
FTD-HT-67-177

The Molecular Mixing Velocity Along the Basic Segment of a Turbulent Jet, by A. G. Prudnikov, N. A. Zamyatina, 11 pp.
RUSSIAN, per, Izvestiya Vysahikh Uchebnykh Zavedeniy. Aviatsionnava Tekhnika, No 3, 1966, pp 104-110 P100204868-V FTD-HT-67-212

On One Possibility of Increasing the Stage Efficiency of a Gas Ejector, by V. S. Baykov, Yu. N. Vasil'yev, 12 pp RUSSIAN, per, Lopatochnyve Hashiny I Struynyve Apparaty. Shornik Statey, No 1, 1900, pp 235-249 P100201066-V PTD-MT-24-185-67

Scientific Propulsion & Puels (Contd)

On Calculating the Throttling Characteristics of a Gas Ejector With Negative Ejection Coefficients, by Yu. N. Vasil'yev, 8 pp RUSSIAN, per, Lopatochnyve Mashiny I Struynyve Apparaty. Sbornik Statey, No. 1, 1966, pp 250-258 P100201068-V FTD-MT-2h-185-67

Pressing Problems of Cil-Refining Development, by A. Pichugin, 6 pp. RUSSIAN, per, Neftyanik, June 1968, pp 2-3. JPRS 46088

The Motion of a Body of Variable Mass with Accumulation of Energy and an Engine with Restricted Jet Discharge Velocity. Part II, by G. L. Grodzovskiy, B. N. Kiforenko, 5 pp. RUSSIAN, rpt, O Dvizhenii Tela Peremennoy Massy s Makorleniyem Energii i Dvizhitelem s Ogranichennoy Skorost'yu Istecheniya Reaktivnoy Strui - Part II, 1966, pp 1-5. P10020468

The Disturbance of Normal Conditions of the Burning of Porous Charges of Explosive Substances, by V. K. Bobolev, I. A. Karpukhin, 7 pp MUSSIAN, per, Teplo- I Massoperence, Vol 4, 1966, pp 273-278 P100164768-V FTD-MT-24-248-67

Temperature Errors in Measuring the Diameter of a Rotor of a Compressor and a Gas Turbine Engine, by I. Ye. Velikovskiy. ? pp. RUSSIAM, par, Trudy, Kasan, Aviationnyy Institut, Aviationnyy Tekhnologiya i Organisativa Proisyodstva, No St., 1964, pp 15-22. PriD-HT-23-992-67

Turbulent Mixing of Two Semi-Infinita Streams of Reacting Gases, by Ye. F. Avdeyov, F. Aliyov, 14 pp. RUSSIAN, per, Trudy. Lenindred. Politekt-micheskiv Institut. Cidronsandinamika, No 265, 1966, pp 65-70. P10-MI-24-361-67

Scientific Propulsion & Pools (Contd)

Decelerating Systems, by Z. I. Taranenko, Ya. K. Trokhimenko.
RUSSIAH, bk. Zamedlyayushchiye Sistemy.
1965, pp 1-305.
ACSI J-5154
FSTC-HT-23-354-68

An Antisurge Regulator, by I. S. Ratner, 2 pp. RUSSIAN, <u>Patent 158185 (810160/24-6)</u>, Class 47g, 48₀₂, pp 1-2. P100221968-V FTD-HT-23-1117-67

Gas Turbine, by N. N. Bykov, O. N. Yemin, 2 pp.
RUSSIAN, Patent 169947 (863598/24-6),
Class 46f, 501, pp 1-2. P100221568-V
FTI-HT-23-1009-67

Mixer and Exhaust Nozzle of Gas Turbine Combustion Chambers, by M. M. Kovalevskiy, V. N. Gorahkov, 2 pp. RUSSIAN, rpt, Patent 177231 (863241/ 24-6) Class 46f, 402, pp 1-2. P100230268-V FTD-HT-23-947-67

Computing the Critical Velocity of a Turbine on a Ural I Computer, by L. Prasek, 10 pp. CZECH, rpt, Celositha Konferencie o Problemoch Dynamicy Strojov. 2d. Smolerice, 1961. Dynamika Strojov. Spornik, 1963, pp 388-401. Pi00222168-V

Raulometric Notheds for Hersuring Clearances Inside Hot-Air Turbines, by H. Navratil, 15 pp. CZECH, per, <u>Stroilronstvi</u>, Vul 14, Ho 12, 1964, pp 337-744. Pion222968-V FTD-HT-23-1046-67

Safety Problems in the Design of Very Fast Reactors Using Plutonium Fuel, by A. I. Leypunskiy. PREMIN, rpt, Conference Internationals Sur La Surete Des Reacteurs A Meutrons Empides, 1967, pp 1-13. 4FID-MI-24-361-68

Scientific Propulsion & Fuels (Contd)

Provisions for Reliable Haat Removal from the BN-350 and BOR Reactors, by A. A. Rineyskiy FRENCH, rpt, Conference Internationale Sur La Surete Des Reacteurs A Neutrons Rapides, 1967, pp 2-26.
*FTD-MT-24-362-68

Emergency Conditions in Operating the BOR Reactor, by I. A. Kuznetsov FRENCH, rpt, Conference Internationale Sur La Surete Des Reacteurs A Neutrons Rapides, 1967, pp 2-26. *FTD-MT-24-363-68

List of Studies Conducted and Published by O.N.E.R.A. on the Ramjet Since 1955.
FRENCH, per, Office National d'Etudes et de Recherches Aerospatiales. Departement des Etudes de Syntheses, Chatillon, O.N.E.R.A. 1968, pp 1-8.
*FTD-H-23-794-68

Gas Turbine Combustion Chambers with Film Evaporation, by A. W. Hussmann. GERMAN, per, Dresden. Technische Universitat. Wissenschaftliche Zeitschrift, Vol 16, No 2, 1967, pp 353-357. *FTD-HT-23-872-68

Simulation of the Oil Circulation of Turbine Propulsion Units and Its Significance for the Investigation of Aircraft Turbine Oils Under Conditions Close to Actual Service, by G. Spengler, E. K. Jantsen, 12 pp. GERMAN, per, Sonderdruck Aus "Zeitschrift For Flugrissenschaften", Vol 14, No 2, 1966, pp 99-102. P100210168-V

Soviet Rockets and Rocket Engines, by E.Magy HINDARIAN, np, <u>Muszaki Elet</u>, No 22, p 1, Col 1-2, 1967, p. 8, Col 1-3. *FTD-HT-23-864-68

Development and Tasks of Hungarian Petroleum Processing Industry, 8 pp. HUNDARIAN, per, Mussaki Elet, Vol 25, 30 Nov 1967, pp 26-32. JPRS 45685

Liquid Fuels in Space Heating, 6 pp. HJMMARIAM, per, Mussaki Elet, 30 Nov 1967, p 29.
JPMS 45685

Scientific Propulsion & Fuels (Contd)

Current Status and Development of Our Fuel Supply Network, 10 pp.
HUNGARIAN, per, Muszaki Elet, 30 Nov 1967, p 32.
JPRS 45685

Considerations on the Dimensioning of the Rotor of a Centrifugal Compressor with Blading Radial to the Outside Diameter, by F. Surace, 19 pp.

ITALIAN, rpt, Istit. di Macchine del Politecnico di Milano

AEC-K-tr 40

Space Technology

rroblems in Space Toxicology, by V. V. Kustov, L. A. Tiumov, 8 pp.
RUSJIAH, per, Izvestiva Akademii Nauk SSR,
Seriva Biologicheskava, July-Aug 1968, pp 605608.
J.RS 46403

Observations of Artificial Earth Satellites, RUSSIAN, monograph, Nablyudeniya Iskisstvennykh Sputnikov Zemli, No 6, 1967, pp 1-60.

Scientist Reviews Problems of Space Psychology, by V. Lebedev, 12 pp. RUSSIAN, per, Nauka i shish', Moscow, No 3, 1968, pp 25-29. JPRS 46446

How Man Might Communicate With Other Planets, by D. Kulin, 6 pp. RUSSIAN, per, Mauke i shisn', Moscow, No 3, 1968, pp 110-111.
JPRS 46446

Scientific Space Technology (Contd)

Review of Some Qualitative Results
Obtained in Flight Dynamics by the
Optimal Processes Theory, by
V. K. Isayev, Yu. M. Kopnin, 40 pp.
RUSSIAN, bk, Obzor Nekotorykh
Kachestvennykh Rezul'Tatov,
Poluchennykh V Dinamike Poleta S
Pomoshch'Yu Teorii Optimal'Nykh
Protsessov, 1966, pp 1-49
P100203766-V
FTD-HT-23-533-67

Principles of Flight Theory and Elements of Designing Artificial Farth Satellites, by M. K. Tikhonravov.
RUSSIAN, mono, Osnovy Teorii Foleta i Clementy Proyektirovaniya Iskusstvennykh Sputnikov Zemli.
Moscow, 1967, pp 250-295.
**TD:MT-24-328-68

Tragedy at Cape Kennedy, by T. Borisov, 2 pp. RUSSIAN, np. Trud, No 25, Jan 29, 1967, p 3. Pl00217368-V FTD-HT-23-1122-67

The Doppler Nethod of Mavigational Use of Artificial Earth Satellites, by Ye. N. Perevesentsev. 14 pp.
RUSSIAN, per. Leningrad, Tsentral'nyy Nauchno-Issledovatel'sdy Institut Horskogo Flots. Trudy. No 73, 1966, pp 65-76. P100244068-V FTD-MT-24-247-67

Selection of Space Seacon Orbits for Continuous-Operation Navigation Satellite Systems, by Ye. No. Perevezentsev, 20 pp.
RUSSIAN, por, <u>Trudy Teentral moso Nauchno-Issledovatel ekozo Instituta Norskogo Flota</u>, No. 83, 1967, pp. 69-75.
PRS 46,291

Problems of Optimisation in the Mechanics of Spaceflight With Small Thrusts, by G. L. Grodsovskiy, Yu. N. Ivanov, 23 pp.
RUSSIAN, per, Vsesovanny Sayed Po Teoretichesko: I Frikladnov Heimanike.
2d. Moscow, 1964. Analiticheskaya Mekhanika. Ustovchivost' Dvisheniya.
Mebanika. Ustovchivost' Dvisheniya.
Mebanika. Ustovchivost' Dvisheniya.
Mebanika. Ustovchivost' Dvisheniya.
Mebanika. Ustovchivost' Dvisheniya.
Pp 161-197.
P100231066-V
FTD-HT-23-1241-67

Scientific Space Technology (Contd)

life Support of Spacecraft Crews, by G. I. Voronin, A. I. Polivoda, 215 pp.
RUSSIAN, bk., Zhisneobespecheniye Edipashey Assuichesidkh Korabley; 1967, 211 7p.
JPRS 46173

Cabin of Spaceships, by Sheng Ta CHINESE, per, Hang K'ung Chih Shih, No 4, 1960, pp 14-15. #FTD-HT-23-869-68C

The Heat Barrier, by Wei Yeh, 7 pp. CHINESE, per, Hang K'Ung Chih Shih, Vol 2, No 3, 1965, pp 8-10. Pl00230968-V FTD-HT-23-590-67

The Soviet Union's Space Researches, 1966, by H. A. F. Schmidt.

GERMAN, per, Flieger-Jahrbuch, 1968, pp 9-17.

*FTD-HI-23-831-68

The Determination of Orbit Perturbations of Artificial Farth Satellites with the Aid fo Gravity Anomalies, by K. R. Koch.
GENGAN, per, Schweizerische Zeitschrift fur Vermessung, Photogrammetrie und Kulturtechnik, Vol 65, No 3, 15 March 1967, pp 99-111.
ACIC TC-1415

Miscellaneous

For You, Huranity1, by I. Lazarenko, 10 pp. 30351AL, por, Artomatika, Telepokhanika i Syvant, No 11, 1964, pp. 55-53. Ploc221167-9 PTD-X-26-275-67

Other Investigations RUSSIAN, rpt, Cospur Proceedings. Toyko, Japan, 1967, pp 75-78.
#FID-EI-23-843-68

Patent Rights Defined, 6 pp. RUSSIAN, np. Emponisheskaya sazeta, 13 Nar 1960, p 32. JPRS 45702

Scientific Miscellaneous (Contd)

Distribution, by E. laksimova, 11 pp. RUSSIAL, op. <u>Izvastiva</u>, 24 Aug 1966, p 3. P100203263 FTD-HT-67-323

Marxist-Leminist Philosophy and Problems of the Natural Sciences, by N. Semenov, 26 pp. RUSSIAN, per, <u>Kommunist</u>, Moscow, No 10, July 1968, pp 48-65. JPRS 46525

Engineer or "Scientific Courier", by A. Konavalenko, 5 pp. RUSSIAN, np. Trud. 23 How 1966, p 2. Picc203769
FTD-HT-67-317

Vestnik of the USSR Academy of Sciences, 152 pp. RUSSIAN, per, Vestnik Akademii Nauk SSSR, Vol 38, No 4, Apr 1968, pp 3-66, 75-106, 109-113, 120-127 JPRS 45969

Vestnik of the USSR Academy of Sciences, 210 pp.
RUSSIAN, per, Vestnik Akademii Nauk SSSR, Vol 38, No 5, Hay 1968, pp 1-144.
JPRS 46162

Vestnik of the USSR Academy of Sciences, 182 pp. RUSSIAN, per, Vestnik Akademii Nauk SSSR, Vol 33, No 6, June 1963, pp 3-153.
JTRS 46557

inglish Title Chicnown, by V. Ya. Smolyakov. RUSSIAN, per, Zhurmal Prikladnov Kakhanikh 1 Tekhnicheskov Figiki, No 1, 1967. *FTD-HT-23-798-68

First International Congress of Neurologists, Psychiatrists and Neurosurgeons, Sofia, 4-6 October 1967, 16 pp. BULDARIAN, per, <u>Neurologiya psikhiatriya i</u> neurokhirurgiya, Vol VII, No 1, 1968, pp 46-54. JFNS 45843 Scientific Miscellaneous (Contd)

Neeting of Republic Medical Society of Neurologists, Psychiatrists and Neurosurgeons, 3 pp. BUIGARIAN, per, Nevrologiya, psikhiatriya 1 nevrokhirurgiya, Vol VII, No 1, 1963, pp 54-58. JPRS 45843

Resolution of First Congress of Neurologists, Psychiatrists and Neurosurgeons, 8 pp. BUIGARIAN, per, Neurologiya, psikhiatriya i neurokhirurgiya, Vol VII, No 1, 1968, pp 58-62. JPRS 45843

Problems and Discussions, by Ta-wei Shieh, CHINESE, per, Peking, T'u-mu, Kung-ch'eng Hsueh-pao, Vol 8, No 1, Jan 1962, pp 64. *FTD-HT-23-840-68C

Beyond the Seventh Heaven, by Chao Jer-Yang. CHIMESS, per, the Heish Tien Chi Shu, No 4, 1966, pp 4-5.
ACSI J-3767
ID 2204055167

Intelligent Development of Energy Base Stressed, by K. Prochaska, 6 pp. CZECH, np. Hospodarske Noviny, 31 Hay 1968, p 9. JPRS 46031

Abidjan Institute of Tropical Ecology Described, by J. Soul'e, 5 pp.
FREMCH, per, <u>Bulletin d'Information et de Liaison</u>, de 1, 1963, pp 46-50.
JPRS 46,357

Lieutenant Roger Casimirius, 5 pp FRENCH, School Folder, 23 Mar 1968, Dept of Navy/1005 1271

The Air Cushion Tont. CERLAN, rpt. ACSI J-4266 ID 2936013666

Dornier Do-31 Testprogram, by D. W. Mood ORNAM, per, Flug Revue International. Luft-und Raumfahrttechnik, No 2, 1968, pp 23-26 à 31.

Scientific Miscellaneous (Contd)

Science Minister Urges Better Research Results, by Guenter Proy, 9 pp. GERMAN, np, <u>Die Wirtschaft</u>, 3 Jul 1968, pp 3, 5.
JPRS 46,348

Polish/Soviet Scientific Theory Symposium, by Janos Farkas-Gyula Paczolay, 5 pp. HUNGARIAN, per, Magyar Tudomany, Mar 1968, pp 183-186. JPRS 45843

New Doctors and Candidates of Science, 20 pp. HUNGARIAN, per, Magyar Tudomany, March 1968, pp 189-193.
JPRS 45843

Report to the 1968 General Assembly of the Academy, by Tibor Erdey-Gruz, 14 pp.
HUNGARIAN, per, Magyar Tudomany, June 1968, pp 342353.
JPRS 46302

Branch and Network Concepts of the Science of Science, by Janos Farkas, 21 pp. HUNGARIAN, per, Magyar Tudomany, June 1968, pp 357-373.

JPRS 46302

Polish Chemistry Supported by USSR Oil, Gas, by Henry!: Konopacki, 7 pp. POLISH, np. Handel Zagraniczny, (Special Ed), 1968, pp 9-12.
JPRS 46,348

Trends in Financing Scientific Research, by Teodor Brates, 10 pp.
RUMANIAN, per, Finante si credit, Apr 1968, pp 45-52.
JPRS 45843

Science as a Branch of the National Economy, by Al. Gheorghiu, R. Diaconescu, 13 pp. RUMANIAN, per, Revista de Statistica, May 1968, pp 3-12.
JPRS 46302

Professor Advocates Scientific Science Policy, by Favel Apostol, 5 pp. RUMANIAN, np., Romania Libera, 6 Aug 1968, pp 1-2. JPRS 46372 Scientific
Miscellaneous (Contd)

Scientific Research Can Be Greatly Improved, by Barabas Endre, 5 pp. RUMANIAN, np, Scinteia, Bucharest, 17 July 1968, p 4.
JPRS 46421

Yugoslavia, Czechoslovakia Exchange More Experts, 5 pp. SEPBO-CRCATIAN, per, <u>Produktivnost</u>, Jun 1968, pp 465-466. JPRS 46,354

INFORMATION RECEIVED DURING

OCTOBER

ON COVER-TO-COVER TRANSLATIONS

Acta Biochimica Polonica, Vol 15, No 2, 1968. CFSTI TT-68-50009/2

Doklady Akademiy Nauk SSSR, Mathematika, Vol 180, No 1-6, 1968. The American Mathematical Society Vol 9, No 3, May-June 1968

Akusticheskiy Zhurnal, Vol 12, No 1, Jan-March 1966. The American Institute of Physics Vol 12, No 1, July-Sept 1966.

Elektrokhimiya, Vol 4, No 3, 1968.

Akusticheskiy Zhurnal, Vol 12, No 2, April-June The American Institute of Physics Vol 12, No 2, Oct-Dec 1966.

Elektrosvyaz, Part 1. Vol 22, No 3, 1968.

Akusticheskiy Zhurnal, Vol 12, No 3, July-Sept, 1966. The American Institute of Physics

Vol 12, No 3, Jan-March 1967.

Elektrosvyaz, Part 1, Vol 22, No 4, 1968.

Archivum Immunologiae et Therapiae Experimentalis, Vol 16, No 3, 1968. CESTI TT 68-50005/3

Elektrotekhnika, Vol 36, No 4, 1965. The Faraday Press, Inc.

Fizika Tverdogo Tela, Vol 10, No 4, 1968. The American Institute of Physics Vol 10, No 4, October 1968.

Biokhimiya, Vol 32, No 1-6, 1967.

1.2

Geomagnetizm i Aeronomiya, No 1, 1968. The American Geophysical Union

Doklady Akademiy Nauk SSSR, Chemistry, Vol 178, No 4-6, Feb 1968.

Izvestiya Akademiye Nauk SSSR, Atmosfery i Okeanologicheskiy, Vol 4, No 3, 1968. The American Geophysical Union

Doklady Akademiy Nauk SSSR, Fiziki, Vol 179, No 1-3, March '368. The American Institute of Physics Vol 13, No 3, Sept 1968.

Izvestiya Akademiye Nauk SSSR, Atmosfery i Okeanologicheskiy, Vol 4, No 4, 1368. The American Geophysical Union

Izvestiya Akademiye Nauk SSSR, Pizika Zemli, No 4, 1968. The American Geophysical Union

Izvestiya Akademiye Nauk SSSR, Seriya Fizicheskaya, Tsvetnye Metally, Vol 40, No 4, 1967. Vol 31, No 9, 1967. The Columbia Technical Technical Translations

Primary Sources Vol 8, No 4, 1967

Izvestiya VUZ. Fizika, No 5, September-October The Faraday Press, Inc.

Tyl i Snabzheniye, No 4, 1968. ACSI J-4982

Kristallografiya, Vol 13, No 2, March-April 1968. The American Institute of Physics, Inc. Vol 13, No 2, Sept-Oct 1968.

Uspekhi Fizicheskikh Nauk, Vol 93, No 3-4, 1968. The American Institute of Physics Vol 10, No 6, May-June 1968.

Ogneupory, No 11-12, Nov-Dec 1967.

Voyenno Meditsinskiy Zhurnal, No 8, 1967. ACSI J-3396

Optika i Spektroskopiya, Vol 24, No 4, 1968. The Optical Society of America

Voyenno-Meditsinskiy Zhurnal, No 5, 1968. ACSI J-5178

Optika Spektroskopiya, Vol 24, No 5, 1968. The Optical Society of America

Yadernaya Fizika, Vol 6, No 5, November 1967. The American Institute of Physics Vol 6, No 5, May 1968.

Radiotekhnika, Part 2, Vol 23, No 3, 1968. TEEE

Zhurnal Analiticheskoi Khimiy, Vol 23, No 1, 1968.

Radiotekhnika, Part 2, Vol 23, No 4, 1968. TEEE

Zhurnal Analiticheskoi Khimiy, Vol 23, No 2, 1968. œ

Radiotekhnika i Elektronika, No 3, 1968. IEEE

Zhurnal Eksperimental'noi Teoreticheskoi Fiziki, Vol 53, No 6, 1967.
The American Institute of Physics Vol 26, No 6, 1968.

Rediotekhnika i Elektronika, No 4, 1968. TEFE

Zhurnal Obschei Khimiy, Vol 38, No 1, 1968.

Staub, Vol 27, No 12, 1967. CFSTI TT 67-51408/12

Zhurnal Organicheskoi Khimiy, Vol 33, No 10, 1968.

Steklo i Keramika, Vol 24, No 11-12, Nov-Dec 1967.

Zhurnel Prikladnoi Khimiy, Vol 41, No 1, 1968.

Zhurnal Tekhnicheskoi Fiziki, Vol 38, No 4, 1968. The American Institute of Physics, Inc. Vol 13, No 4, Oct 1968.

ACTA BIOCHIMICA POLONICA Vol 15, No 2, 1968

M. Wolny, D-Glyceraldehyde-3-phosphate dehydrogenase from human mus-	
cle. SH groups and inhibitors	137
Zofia Kasprzyk, J. Pyrek and Grażyna Turowska, The variations	
of free and bound sterols in Calendula officinalis during vegetation	149
A. Koj, Enzymic reduction of thiosulphate in preparations from beef liver	161
Zofia Porembska, Ina Gąsiorowska and Irena Mochnacka,	
Isolation of arginase and guanidinobutyrate ureohydrolase from hepato-	
pancreas of Helix pomatia	171
A. B. Legocki, A. Szymkowiak and J. Pawelkiewicz, Isolation	
of isoleucine-specific transfer ribonucleic acid from yellow lupin seeds	183
A. B. Legocki, A. Szymkowiak, M. Hierowski and J. Pawełkie-	
wicz, Heterogeneity of transfer ribonucleic acids from yellow lupin	
seeds	197
K. Maskos and Wanda Mejbaum-Katzenellenbogen, Sulpho-	
salicylic acid-soluble proteins and their distribution in subcellular frac-	
tions of calf thymus	205
W. Ostrowski, Further characterization of acid phosphomonoesterase of	
human prostate	213
Z. Drahota and Eva Honová, On the formation of acetoacetate by rat-	
-liver mitochondria	227
Books reviewed	R9

Available From CFSTI TT-68-50009/2

Soviet Physics ACOUSTICS

A Translation of "Akusticheskii Zhurna."

(Russian Original Vol. 12, No. 1, pp. 1-141, January-March, 1966)

Vol. 12, No. 1, pp. 1-130

July-September, 1966

			RUSS.
		PAGE	PAGE
Generation and Amplification of an Ultrasonic Signal in CdS Crystals			
with a Depletion Layer. V. I. Vas'kova, I. A. Viktorov, and L. D. Rozenberg	(E)	1	1
Near Field of a Linear Radiating Array. É. L. Vinogradova	(T)	6	7
Ambiophonic Reverberation in a System with an Echo Chamber. N. P. Voronkova.	(T)	10	12
Correlation of the Velocity of Sound and Electrical Conductivity in Liquid Metals.	\ _/		
M. B. Gitis and I. G. Mikhailov	(E)	14	17
Vibrations in Piezoceramic Tubes. E. P. Golubkov	(E/T)	18	22
Acoustical Properties of Molecular Crystals near the Melting Point.	, , ,		
M. A. Gorbunov, N. I. Koshkin, and D. V. Sheloput	(E/T)	20	25
Drift of an Acrosol Particle in a Sound Wave Distorted by the Presence	•		
of the Second Harmonic. A. S. Denisov, D. B. Dianov, A. A. Podol'skii,			
and V. I. Turubarov	(T)	25	31
Amplitude Distribution Functions of Cylindrical Lenses and Reflector.			
I. N. Kanevskii	(T)	31	39
Vibrational Frequency Characteristics of Bars Constrained by Electromechanical			
Feedback. A. S. Knyazev and B. D. Tartakovskii	(T/E)	36	46
Measurement of the Viscosity of Newtonian Fluids by Means of Vibratory Probes.			
V. N. Krutin and I. B. Smirnitskii	(T)	42	54
Scattering of Sound by a Solid Layer with Rough Boundaries. A. D. Lapin	(T)	46	59
Diffraction of a Plane Wave, Transmitted through an Inhomogeneous Layer,			
by a Periodically Uneven Surface of Arbitrary Configuration. Yu. P. Lysanov.	(T)	52	68
Magnitude of the Reduction in Acoustic Power of a Jet Stream in a Cylindrical			
Noise Suppressor. A. G. Munin	(T/E)	55	72
Influence of the Edge of a Wedge with Vibrating Faces on the Radiated Acoustic			
Power. M. P. Sakharova	(T)	60	78
Effect of the Temperature and Gas Content of the Liquid on Cavitation Processes.			
M. G. Sirotyuk	(E/T)	67	87
Adiabatic Compressibility of Aqueous Electrolyte Solutions. P. F. Cholpan	(E/T)	72	93
Radiation of Sound from a Strip into a Moving Medium. E. L. Shenderoy	(T)	76	98
BRIEF COMMUNICATIONS			
On the Sonation of Sands. V. I. Arabadzhi	(E)	81	105
Experiments on the Drying of Colloidal Materials in a Standing Sound Wave.	(2)	91	100
Yu. Ya. Borisov and N. M. Gynkina.	(E)	84	107
Some Results of an Investigation of the Frequency Correlation of Amplitude	(2)	91	701
Fluctuations in Sound Signals. É. P. Gulin and K. I. Malyshev	(E)	87	110
Radiation Energy and Impedance of a Moving Acoustic Monopole.	(£)	91	- 10
V. P. Dokuchaev	(T)	89	112
11.11 Management 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(4)	70	(Conta)

Available From The American Institute of Physics Vol 12, No 1, July-Sept 1966 AKUSTICHESKIY ZHURNAL Vol 12, No 1, Jan-March 1966

Vol 12, No 1, Jan-March 1966			RUŠS.
		PAGE	
Tileman min Mathad of Manuscian the Plantic Maduli of Mathala at Manusciana			
Ultrasonic Method of Measuring the Elastic Moduli of Metals at Temperatures to 3000°K. B. A. Kalugin and I. G. Mikhailov	(E)	91	114
Maximum Aperture Angles and Phase Aberration of Cylindrical Ultrasonic Lenses.	(12)	31	***
I. N. Kanevskii	(T)	93	116
Velocity of Sound and Adiabatic Compressibility of Bivalent and Univalent	, -,		
Electrolyte Solutions in Methanol. A. S. Kaurova and G. P. Roshchina	(E/T)	95	118
Aural Perception of Timbre Variation in the Addition of a Signal with its Echo.			
G. K. Klimenko.	(E)	98	120
Microradiometer for the Investigation of Acoustic Fields in Liquids.	(
Yu. P. Rozin and V. S. Tikhonova.	(E/T)	101	123
Analysis of the Interaction of Viscosity Pickups with a Liquid. Yu. K. Smirnov	(T)	104	125
Atomization of a Liquid by Low-Frequency Ultrasonic Vibrations. O. K. Éknadiosyants	(E)	106	127
	(12)	100	161
CHRONICLES			
V. S. Grigor'ev (On His 60th Birthday)	(R)	109	130
S. M. Sukhotina (On Her 60th Birthday)	(R)	111	131
All-Union Conference on New Research Trends in the Absorption, Amplification, Generation, and Reception of Ultrasonic and Hypersonic Vibrations in Solids			
and the Application of these Effects in Acoustics and Electronics.			
V. A. Shutilov	(R)	112	131
Second All-Union Conference on the Methodological Problems of Ultrasonic	(20)		
Interferometry. S. N. Rzhevkin	(R)	114	133
Summary of the Fifth International Congress on Acoustics. I. P. Golyamina	• •		
and L. M. Lyamshev	(R)	116	134
All-Union Conference on Noise and Vibration Control by Architectural Acoustical			
Methods	(R)	121	138
BIBLIOGRAPHY			
Fundamentals of Molecular Acoustics. I. G. Mikhailov, V. A. Solov'ev.			
and Yu. P. Syrnikov. Edited by I. G. Mikhailov	(R)	122	139
Literature on Acoustics	(R)	124	140

Available From The American Institute of Physics Vol 12, No 1, July-Sept 1966

Soviet Physics ACOUSTICS

A Translation of "Akusticheskii Zhurnal"

(Russian Original Vol. 12, No. 2, pp. 145-270, April-June, 1966)

October-December, 1966 Vol. 12, No. 2, pp. 131-242 RUSS. PAGE PAGE Propagation of Sound in Liquid Metals (Review). M. B. Gitis and I. G. Mikhailov ... 145 160 Hydration of Ions and the Cavitation Resistance of Water. V. A. Akulichev. 144 Propagation of Flexural Waves along a Beam with Periodic Point Loading. 167 150 Binaural Localization of Acoustic Images in the Presence of Noise. 173 S. D. Burtseva and R. I. Chernyak..... 155 Directivity Factor of a Linear Array of Directional Transmitters. 161 181 É. L. Vinogradova and V. V. Furduev Time-Dependent Absorption of Ultrasound in Elastically Deformed Aluminum. E. K. Guseva..... 164 185 A Parametric Ultrasonic Amplifier. E. A. Zabolotskaya, S. I. Soluyan, 167 188 and R. V. Khokhlov..... Certain Diffraction Problems in Contiguous Liquid and Elastic Wedges. 170 192 (T) Applicability of the Methods of Geometric Acoustics for the Calculation of Sound 180 206 Recognition of Articulation Cues in Stop Consonants in Transition from Vowel 185 213 to Consonant. V. V. Lyublinskaya..... (E/T) Impedance of a Thin Layer of Air in the Harmonic Vibrations of a Membrane. 193 222 Ultrasonic Cavitation Processes at Elevated Hydrostatic Pressures. M. G. Sirotyuk.... 199 231 Angles and Character of the Deflection of a Light Beam in an Ultrasonic Field. 205 239 BRIEF COMMUNICATIONS Method of Investigating the Acoustical Properties of Liquids at Frequencies of 300-1000 Mc. A. A. Berdyev and N. B. Lezhnev (E) 211 Interaction of Ultrasonic Rayleigh Waves with Conduction Electrons in a CdS Crystal. I. A. Viktorov..... 215 (E) Field Fluctuations Caused by Deep-Sea Sound-Scattering Layers. V. P. Glotov 217 (T) and Yu. P. Lysanov Rotation of the Plane of Polarization of Sound in a Magnetic Field 253 in Piezoelectric Semiconductors. Yu. V. Gulyaev 219 Measurement of the Velocity of Ultrasound in Water in the Melting Region. 221 255 (E) Dispersion of the Velocity of Ultrasound in Certain Acetate Solutions. 256 (Contd)

Available From The American Institute of Physics Vol 12, No 2, Oct-Dec 1966

AKUSTICHESKIY ZHURNAL Vol 12, No 2, April-June 1966

, , <u> </u>	PAGE	RUSS. PACJ
Measurement of the Absorption of Ultrasound in Liquids with an Interferometer. V. Ilgunas and K. Paulauskas	225	258
and S. A. Salosina(E/T)	228	261
Behavior of the Second Viscosity of the Binary Mixture Benzene-Methyl Alcohol in the Critical Region. I. G. Makhan'ko and B. F. Nozdrev (T/E) Maximization of the Mechanoacoustic Efficiency of an Array of Point Radiators.	230	263
V. N. Mayatskii	232	265
Flow Conditions. A. A. Podol'skii and V. I. Turabarov (T)	234	266
CHRONICLE S. G. Gershman (On Her 50th Birthday)	237	270
ERRATA	238	

Available From The American Institute of Physics Vol 12, No 2, Oct-Dec 1966

Soviet Physics ACOUSTICS

A Translation of "Akusticheskii Zhurnal"

(Russian Original Vol. 12, No. 3, pp. 273-390, July-September, 1966)

Vol. 12, No. 3, pp. 241-344	January	-March	1967
		PAGE	RUSS.
Action of Ultrasound on the Processes of Photographic Development and Fixing (Review). M. E. Arkhangel'skii	. (R)	241	273
Magnetic Properties of Alloys for Magnetostrictive Transducers. O. N. Al'tgauzen, L. S. Bezuglaya, Z. N. Bulycheva, and O. V. Lyubetskaya	. Œ)	249	283
Surface Waves in a Quartz Crystal. L. V. Verevkina, L. G. Merkulov, and D. A. Tursunov	. (T/E)	254	289
Method. V. V. Voitonis and V. F. Yakovlev Reduction of Impact Noise by Flooring Materials. V. I. Zaborov, G. S. Rosin,	. (E)	259	296
and L. P. Tyumentseva	. (T/E)	263	301
Alloys. R. A. Zvorykina	. (E)	266	306
and O. K. Éknadiosyants Velocity of Ultrasound and Adiabatic Compressibility of Univalent Salts	. (E/T)	269	310
in Methanol. A. S. Kaurova and G. P. Roshchina	. Œ)	276	319
Velocity of Sound. Ya. Z. Kleiman	. (T)	280	325
in a Waveguide Lined with a Soundproofing Material. A. D. Lapin Sound Diffraction by a Semiinfinite Elastic Plate in a Moving Medium.	. (T)	286	333
L. M. Lyamshev	. (T)	291	340
I. G. Mikhailov, L. I. Savina, and V. A. Solov'ev Diffraction of a Scalar Surface Wave at Oblique Incidence on a Boundary	. (E/T)	295	346
between Impedance Half-Planes. V. G. Myshkin Principal Noise and Vibration Characteristics of Centrifugal Pumps.	. (T)	300	351
B. V. Pokrovskii and E. Ya. Yudin	. Œ)	303	355
BRIEF COMMUNICATIONS Effect of Ultrasonic Treatment on the Characteristics of Selenium Rectifiers. M. Ya. Bakirov and Kh. M. Khalilov	. (E)	310	365
Effect of Ultrasound on the Growth and Dissolution of Single Crystals in a Drop of Solution. V. K. Belyaev and I. I. Roshetnyak	. (E)	312	367
and A. F. Kravchenko	. (E/T)	315	369
Yu. Ya. Borisov and Yu. G. Statnikov.	. (E)		372 Contd

Available From The American Institute of Physics Vol 12, No 3, Jan-March 1967

Vol 12, No 3, July-September 1966

Voi 12, No 3, July-September 1966			RUSS.
		PAGE	PAGE
Surface Waves in a Solid, L. M. Brekhovskikh	Œ)	320	374
Generation of Sound Waves in a Liquid by Surface Waves. L. M. Brekhovskikh Efficiency of Emulsification by Means of Acoustic Vibrations. L. G. Dichenskaya,	(T)	323	376
	Œ)	326	379
· · · · · · · · · · · · · · · · · · ·	(T)	328	381
	Œ)	330	382
	Œ)	332	384
• •	Œ)	334	386
· · · · · · · · · · · · · · · · · · ·	(T)	336	387
CHRONICLES			
Tenth Anniversary of the Ultrasonics Seminar. G. S. 11 in		339	390
Fourth All-Union Symposium on Wave Diffraction and Propagation		340	390
ERRATA		341	

Available From The American Institute of Physics Vol 12, No 3, Jan-March 1967

ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS Vol 16, No 3, 1968

	Page
HENNING BRANDIS and G. Weiss: Investigations on the Resistance to Antibiotics of	
Shigella sonnei Strains	349
flexneri to Antibiotics	354
JANINA POGONOWSKA-GOLDHAR and HANNA STYPULKOWSKA-MISIUREWICZ: Immuno-	
chemical Investigations of S	
perties of Obtained Polysaccharides Fractions	359
GUNTRAM SELTMANN: Studies on the Antigenic Structure of Shigellae, II. Studies on	
Immunochemistry of Shigella boydii	367
A. TRIFONOVA and R. TEKELIEVA: Immunoelectrophoretic Studies on the Antigenic Structure of Enterobacteriaceae with Unclarified Taxonomy, II. Immunoelectro-	
phoretic Studies of Type-specific Antigen of Scrotype 792	:376
IDA and FRITS ORSKOY: What is the Nature of E. coli Antigens? An Attempt to Analyse	
the K-Antigens by Various Serological Methods	387
HELMUT RISCHE: Phage Typing of Shigelia sonnei according to Hammarström Current Experiences and Completion of the Method by Temperate Phages	392
ANNA PRZONDO-HESSEK, STEFAN ŚLOPEK and Janina Miodońska: Phage Typing of	-
Klebsiella rhinoscleromatis	402
JADWIGA MARESZ-BABCZYSZYN, EWA MRÓZ-KURPIELA and STEFAN SLOPEK: Typing	406
of Klebsiella rhinoscleromatis by Means of Pneumocins	410
SIMONE SZTURM-RUBINSTEN: Determination of Biotype, Phage Type and Colicinogenic	
Character of Shigella sonnei, and its Epidemiologic Importance	421
JAN KOSTRZEWSKI and HANNA STYPULKOWSKA-MISIUREWICZ: Changes in the Epidemiology of Dysentery in Poland and the Situation in Europe	429
Eugen van Ove, Irene Pfeifer and Walter Krüger: The Epidemiology of Shigellosis	423
in Belgium, with Special Reference to the Phage-types of Shigella sonnei	452
N. OLINICI, V. BORDEIANU, L. DAVID and L. IANOPOL: The Incidence of Shigellosis in	470
Relation to Age Groups, Sex, Seasons and Methods of Investigation IRENE PREIFER and WALTER KRÜGER: Lysotypes and Antibiotic Sensitivity of Shigella	459
sonnei in Berlin (GDR)	471
A. P. KRASILNIKOV: Mechanisms of the Transmission of Rhinoscleroma Infection	474
LADISLAY DUBAY: Blochemical Subtypes of Klebsiella Type 4 and their Occurrence	486
in Patients	491
N. A. IZRAITEL and L. G. BORTKEVICH: Immunologic Studies in Rhinoscleroma	497
STEFAN SLOPEK, MARIAN MULCZYK and ALINA KRUKOWSKA: Phage typing of Shigella	
flexneri . STEPAN ŚLOPEK, ALINA KRUKOWSKA and MARIAN MULCZYK: Phage typing of Shigella	512
SOURCE	519

Available From CFSTI TT 68-50005/3

Vol 32, No 1-6, 1967

	Engl.	/Russ.
Activating Effect of Tetramethylammonium Ions and Acetylcholine on Horse Serum Cholinesterase – A. P. Brestkin and I. L. Brik Investigation of the Incorporation of C ¹⁴ -Leucine into the Microsomal Fractions of	. 1	3
Rabbit Liver and Spleen after Antigen Injection - 1. Ya. Uchttel and E. H.	9	13
Influence of Natural Imidazole Compounds on the Adenosinetriphosphatase Activity of Myosin - I. M. Bocharnikova and E. V. Petushkova	13	17
Preparation and Properties of Bovine, Monkey, and Rat Growth Hormones - T. M. Chulkova and V. N. Orekhovich	20	26
and V. N. Oreknovich Composition of Specific Polysaccharides of a Brucella abortus Variant - I. I. Dubrovskaya and E. A. Dranovskaya Control Muccon and a Study of Its ATPase	24	31
Isolation of a Myosin-Like Protein from Gastric Mucosa and a Study of Its ATPase	31	38
Activity and Some Physicochemical Properties - Kh. P. Lind Amino Acid Composition of Plasteins - K. S. Makarov Amino Acid Composition of Plasteins - K. S. Makarov	37	45
Selective Pheophytinization of New Chlorophyll Molecules in Euglena Cells - A. A. Shlyk, A. A. Baranov, M. D. Makhtyuk, and É. N. Rusak	41	50
Xanthine Catabolism in the Yeast Candida guilliermondii and Role of Metals in the Process - G. M. Shavlovskii and E. M. Logvinenko	48	59
Effect of Heteroauxin and Some Respiratory Inhibitors on the Content of Amino Acids in Sunflower Leave - V. I. Zvyagintsey and A. A. Zemlyanukhin	57	69
Biological Activity of Depsipeptide Analogues of Glutathione and Ophthalmic Acid – M. B. Reznikova	60	73
Possible Role of the Thiazole Moiety of Thiamine during Binding of the Vitamin in the Tissues - Yu. M. Ostrovskii Effect of Some Potential Antimetabolites of Mevalonic Acid on the Biosynthesis of Choles-	66	50
terol in Rat Liver - A. N. Klimov, É.D. Polyakova, A. L. Remizov, and L. A. Petrova	72	88
Properties of Purified Serratia marcescens DNAase and Its Action on DNA - I. B. Lesh- chinskaya, V. I. Tanyashin, N. V. Kalacheva, and A. R. Gibadullina	76	93
Volume 32, Number 1, Part 2 January-February, 1967		
Study of the Ability of γ -Irradiated Lysozyme to Undergo Aggregation Using Solubility		
and Gel-Filtration Methods - V. I. Maksimov and V. I. Osipov	81	98
Kurgul'tseva, and A. I. Gagel'gants	87	106
N. A. Yusipova	91	111
and in the Presence of Certain Reagents - I. M. Bocharnikova and E. V. Petushkova Isolation, Partial Purification, and Some Properties of Choline Acetyltransferase from	99	119
Rabbit Brain - S. E. Severin and V. Artenie	104	125
Available From Consultants Bureau		1069
- 143 -		(Contd)

BIOKHIMIYA Vol 32, No 1-6, 1967

	Engl.	/Russ.
Effect of Penicillin and Certain Semisynthetic Penicillins on the Respiratory-Chain Enzymes of Staphylococcus aureus 209-P - L. I. Torbochkina and I. N. Navol'neva	111	133
Regulating Effect of Glucocorticosteroids and Insulin on the Glucokinase Activity in the		
Cytostructures of Adipose Tissue of the Rat Epididymis – K. G. Gromova	120	144
chenko, G. N. Zaitseva, G. Kh. Matsuka, and G. I. Akhmedov	125	150
chondria of the Cerebral Hemispheres of Rats - G. A. Dimitrov and A. A. Kolotilova Isolation of the 11S Component of Soya Bean Protein and Determination of Its Amino Acid Composition by an Automatic Chromato-Polarographic Method - V. S. Shvarts	130	156
and I. A. Vaintraub Heterogeneity of Cali Thymus Histones by Electrophoresis in Polyacrylamide Gel	135	162
B. A. Rebentish and V. G. Debabov	141	169
and E. L. Rozenfel'd	145	173
Tseitlin, and V. I. Telepneva	151	181
Melik-Sarkisyan, M. D. Kuznetsova, T. A. Avdeeva, and N. M. Sisakyan	157	189
Volume 32, Number 2, Part 1 March-April, 1967		
Vatslav Leonovich Kretovich (on the Occasion of His 60th Birthday)	165	203
-S. M. Avaeva, S. N. Kara-Murza, and M. M. Botvinik	167	205
and E. A. Boikova	171	210
of Pepsin-N. G. Lutsenko, L. M. Ginodman, and V. N. Orekhovich On the Mechanism of the Action of Antifungal Polyenic Antibiotics upon Alcohol	182	223
Fermentation in Yeasts-A. N. Klimov and V. N. Litvinova Participation of Acetol Phosphate in Photo-Phosphorylation in Pea Chloroplasts	186	228
-A. A. Yasnikov, N. V. Volkova, B. N. Bernshtein, A. S. Okanenko,	191	224
and T. A. Reingard		
and R. I. Tatarskaya	196	240
Mulberry Silkworm-Yu. B. Filippovich and S. M. Klunova	202	248
and V. M. Vagabov	207	253
Kinetics of the Hydrolysis of Sodium p-Nitro-Phenylphosphate by Alkaline Phosphatase -A. P. Brestkin, E. B. Nikol'skaya, and N. B. Karpenko	214	261
The Participation of ATP in the Motor Function of the Infusoria Tetrahymena pyriformis-S. A. Burnasheva and T. P. Karausheva	222	270
Identification of Divalent Iron Complexes with Cysteine in Biological Systems by the EPR Method—A. F. Vanin	228	277
Synthesis of a Substance of Adrenocorticotropic Nature Induced in a Cell-Free System of Escherichia coli by Messenger RNA from Bovine Adenohypophyses -I. N. Todorov, V. N. Vasil'chenko, G. A. Pankova, L. M. Nabutovskaya,		
A. A. Livshitz, E.S. Mansheldi, and E. S. Vasil'eva	233	283
Causes of the Effect of pH on Cholinosterase Activity-V. A. Yakovlev and R.S. Agabekyan.	243	293
Interaction between Nucleic Acids, Histones, and other Proteins in Agarose -A, E, Gurvich, S. I. Gorodetskii, and E. V. Sidorova	251	302
Available From Conquitante Bureau		(Contd

Volume 32, Number 2, Part 2 March-April, 1967		
Further Studies of Diols, Isolated from Lipids of Yeasts from the Genus Lipomyces — V. A. Vaver, N. V. Prokazova, A. N. Ushakov, L. S. Golovkina, and L. D.		
Bergel'son Effect of Erythrocyte Age on Location of the Soret Band of Hemoglobin and on Methemo-	257	310
globin and on Methemoglobin Formation — L. É. Gorn	263	318
The Nucleotide Composition of RNA from Human Leukocytes — M. N. Blinov Acid-Soluble Compounds in Clostridium perfringens — I. P. Maiorova and V. A. Blago-	267	323
veshchenskii	272	329
Glucogniactans from Sporobolomuces roseus - N. P. Elinov and G. A. Vitovskaya	279	337
Effect of Salts on Serum Cholinesterase Activity — T. A. Fruentova	283	341
Uspenskaya, M. V. Pleskova, and M. I. Nedelyaeva	288	347
Its Properties — T. P. Egorova and T. S. Paskhina	294 302	35 4 363
Abdumalikov and V. V. Eremenko	302	368
Separation of Pyrimidinc Desoxyribooligonucleotides by DEAE-Sephadex Chromatography — A. L. Mazin and B. F. Vanyushin	313	377
Mechanism of Function of Ubiquinone in Mitochondria — L. M. Raikhman and L. A. Blyumenfel'd	322	388
Preparation of Highly Purified Diamine Oxidase from Pig Kidneys — E. V. Goryachen- kova, L. I. Shcherbatyuk, and E. A. Voronina	330	398
Study of γ -Irradiated Ribonuclease by the Method of Gel Filtration — V. I. Maksimov, V. I. Osipov, and E. D. Kaverzneva	334	403
Nature of Reduced Forms of Chlorophyll — A. P. Losev and G. P. Gurinovich Phosphofructokinase Activity and Regulation of the Pasteur Effect during Early Embryo-	339	409
genesis — L. S. Mil'man and Yu. G. Yurovitskii	344	416
Volume 32, Number 3, Part 1 May-June, 1967		
Mass Spectrometric Determination of the Amino Acid Sequence in Peptides and Proteins — Yu.A. Ovchinnikov, A.A. Kryushkin, E.I. Vinogradova, B.V.		
Rozynov, and M. M. Shemyakin	351	427
Preparations — A. N. Petrova and A. A. Kobzeva	360	439
the Atmosphere — N. G. Doman and M. M. Kydar	365	445
Animals — G.A. Kritskii, I.A. Arends, and Yu.V. Nikolaev	372	452
Mitochondria — D. L. Ferdman, S. F. Épshtein, and O. L. Sanina	377	458
bolism of Nuclear Compounds — O. Ya. Tereschenko	380	462 471
Isolation and Partial Characterization of Glutamate Decarboxylase from Various Strains of Escherichia coli — S. V. Likholetova	393	477
A Study of the Specificity of Hydrolytic Enzyme Formed by Bacillus mycoides HB — S. V. El'chits and M. M. Levitov	397	481
vailable From Consultants Bureau	-	(Contd)
AND SOURCE SETTING DITLESS.		
		1071

BIOKHIMIYA

Vol 32, No 1-6, 1967	Faal	/ 0
Isolation and Physicochemical Properties of Phosphorylase from Bovine Skeletal Muscles	Engi.	/Russ.
- A.D. Morozkin and V. N. Orekhovich	401	487
Uryson, and I.S. Kulaev	408	495
Épshtein and A. M. Maksimova	416	504
E.V. Pronina, and L.N. Yakhontov	421	510
Biryuzova, L.I. Kostycheva, and N.M. Sisakyan	429	520
Human and Rabbit Serum — T.S. Paskhina and S.S. Trapeznikova Some Characteristics of Fructose D phosphatase from Loach Embryo — Yu. G. Yurovitskii	435	527
and L.S. Mil'man	441	534
Volume 32, Number 3, Part 2 May-June, 1967		
Localization of Inorganic Polyphosphates and Nucleoside Polyphosphates in Cells of the Yeast Endomyces magnusii — I. S. Kulaev, T. P. Afanas'eva, and M. P.		
Free Nucleotides and Their Derivatives in the Fat Body of the Oak Silkworm Larva	445	539 548
Antheraea pernyi G* - G. A. Sevast'yanova and A. N. Smolin	452	
Kuznetsov and B. N. Stepanenko	461	558
Diabetes — L. S. Uuskyula	467	564
ing of the Vitamin by the Tissues — Yu. M. Ostrovskii and G. A. Dosta Chromatography of Ascorbic Acid Oxidase on Gel Columns — E. Porath, G. Samorodova-	472	570
Bianki, and S. Hjerten	478	578
L. K. Skolysheva	481	582
The C-Terminal Sequence of Hog Pepsinogen — V. M. Stepanov and E. A. Timokhina Influence of Imidazole-Containing Compounds on the Activity of Myosin Adenosine Tri-	487	590
phosphatase — N. P. Meshkova and N. N. Tsvetkova	491	595
Direct Stimulation - A. A. Boldyrev and A. V. Lebedev	495	600
Catalytic Functions of Peroxidase — T. M. Ivanova, M. A. Davydova, and B. A. Rubin Study of the Biosynthesis of Anserine and Carnosine in the Pectoral Muscle of the Chicken	501	607
— O. V. Dobrynina	505	612
K.A. Kagramanova, and Yu. D. Kuznetzov	510	618
Lisauskaite	514	624
M. L. Bekker	518	629 640
Compounds — I. P. Ashmarin and A. I. Komkova Biosynthesis and Breakdown of N-Acetylneuraminic Acid in Rat Liver under Certain	526	•
Pathologic Conditions — I. V. Tavetkova and M. G. Uzbekov	532	646
Available From Consultants Bureau		(Contd)

1072

BIOKHIMIYA Vol 32, No 1-6, 1967

voi 32, no 1=0, 1967		
The Concentration of Muscle Hemoglobin in the Muscles of Marine Mammals - P. A.	•	.∕ Russ.
Korzhuev and T. N. Glazova The C-Terminal Sequence of Amino Acids in Histidine Decarboxylase of Lactobacillus 30a and Micrococcus Sp. N S. R. Mardashev, M. Z. Zalesskii, S. I. Pekhtereva,	536	651
and L. A. Semina	539	655
Volume 32, Number 4, Part 1 July-August, 1967		
Investigation of the Initial Stages of Aggregation of Virus Particles and Bacterial		
Flagella — E. M. Belavtseva, G. A. Alimov, and B. F. Poglazov Nucleic Acid Content in Small Samples and Individual Cells of the Spinal Cord in	547	667
Various Functional States — S. Kh. Khaidarliu Qualitative Analysis of Brain Phospholipid Fractions by Infrared Spectroscopy —	555	677
V. Ya, Dvorkin, R. T. Molchanova, and D. A. Chetverikov	561	683
Gofman Primary Stages in Entry of Orthophosphate from the Medium into Mycelia of Penicillium	567	690
chrysogenum — I. S. Kulaev and L. A. Okorokov	571	695
peptide Fractions of <u>Bacillus subtilis</u> — L. I. Torbochkina and I. N. Navol'neva Dependence of Hyperchromic Value on Mode of Denaturation of Phage DNA — N. M.	579	705
Shalina, I. I. Nikol'skaya, and T. I. Tikhonenko	584	711
and G. I. Kosourov	588	716
Chelyadina, A. V. Granikova, and M. L. Granovskaya Electron Transport Pathways in Thiobacillus ferrooxidans — G. V. Tikhonova, L. L.	596	722
Lisenkova, N. G. Doman, and V. P. Skulachev	599	725
Kukhanova, and L. L. Kiselev	607	735
Ring — N. N. Lestrovaya, M. I. Bukhar, and G. K. Skryabin	612	741
T. A. Goryukhina	616	746
Polynucleotide Phosphorylase — S. R. Mardashev, L. B. Rebrov, and S. S. Debov The N-Thermal Amino Acid Sequence in Histidine Decarboxylase — S. R. Mardashev,	620	751
L. A. Semina, V. N. Prozorovskii, and A. M. Sokhina	628	761
Its Development — L. I. Shchegoleva and Yu. B. Filippovich	632	766
Volume 32, Number 4, Part 2 July-August, 1967		
Enzymatic Degradation of Desoxyribonucleoprotein, Isolated from Tissues of the Normal		
Animal and after Gamma-Irradiation-N. V. Ermolaeva	639	774
Boichenko	644	779
Luzikov, M. M. Rakhimov, and I. V. Berezin Structure of the Glycerol Teichoic Acid of the Cell Wall of Actinomyces antibioticus	650	786
-M. Sh. Zaretskaya, I. B. Naumova, and Z. A. Shabarova	659	796
Available From Consultants Bureau		(Contd)
		1073

Vol 32, No 1-6, 1967

	Engl	./Russ.
ated Polystyrene Resins—V. M. Stepanov and S. P. Katrukha	665	803
Razumovskaya	668	807
Il'in	672	812
Lukoyanova, V. I. Biryuzova, I. M. Simakova, and N. S. Gel'man	676	816
Heart-A. A. Pokrovskii, A. I. Archakov, and O. N. Lyubimtseva Decomposition of Prothrombin by Thrombin-S. M. Strukova, I. P. Baskova, and B. A.	685	824
Kudryashov	689 694	829 835
ric Method-V. I. Maksimov	074	000
T. N. Sheremet'evskaya	700	843
Smirnova	708	854
from Yeasts—A. Kh. Abdumalikov and A. Ya. Nikolaev	713	859
Tikhomirova-Sidorova, G. E. Ustyuzhanin, and É. M. Kogan	720	867
BRIEF COMMUNICATIONS Induced Synthesis of Asparaginase and Glutaminase by Pseudomonas spL. P. Evseev, A. Ya. Nikolaev, V. V. Eremenko, and S. R. Mardashev	725	873
BOOK REVIEWS L. Webb, Enzyme and Metabolic Inhibitors—Reviewed by V. I. Rozengart and E. V. Rozengart	728	876
Volume 32, Number 5, Part 1 September-October, 1967		
Domestic Biochemistry in the Fifty Years of Soviet Power	731	883
-R. M. Khomutov, G. K. Kovaleva, E. S. Severin, and L. V. Vdovina	745	900
G. V. Mukha, and E. P. Zdrodovskaya	752	908
-I. S. Kulaev and V. I. Mel'gunov	757	913
-N. B. Chernyak and L. M. Timofeeva	796	926
Diphosphate Molecule—Yu. M. Ostrovskii	774	933
A. G. Taranenko	783 791	943 952
Heterogeneity of Histones in Dormant Wheat Germs and in Seedlings—L. V. Gofshtein Isolation of Glycopeptides from Tryptic Hydrolyzates of Egg Albumin—E. D. Kaversneva,	797	959
F. V. Shmakova, and A. P. Andreeva	802	964
Effect of Sodium Ions on the Activity of Acetylcholinesterase of Erythrocytes - L. A. Ivanova		975
Aveilable Prom Consultante Pure	(4	Iontd)

Available From Consultants Bureau

BIOKHIMIYA Vol 32, No 1-6, 1967

Vol 32, No 1-6, 1967	Engl	l./Russ.
Relative Efficiency of Two Chloroplast Pigment Systems during Photosynthetic Phosphorylation in the Presence of Certain Cofactors - V. S. Korshunova,		
T. E. Krendeleva, and A. B. Rubin	814	980
G. K. Korotaev, G. V. Boyarskikh, and B. F. Vanyashin	820	988
Volume 32, Number 5, Part 2 September-October, 1967		
Neuraminic Acid as a Cellular Receptor for Influenza Virus-I. V. Tsvetkova, M. A. Lipkind, L. Ya. Zakstel'skaya, N. A. Yusipova, and E. L. Rozenfel'd Chlorophyl-Sensitized Photooxidation of Hydroxy and Amino Acids-M. S. Ashkinazi	825	994
and I. A. Dolidze	830	1000
Serum-Derived Cholinesterase-A. P. Brestkin and I. L. Brik	833	1004
L. M. Ginodman, and V. N. Orekhovich	839	1011
and A. R. Guseva		1020 .
V. A. Shchennikov, and L. D. Bergel'son		1027
M. M. Rakhimov, V. A. Saks, and I. V. Berezin		1032
Derivatives - V. Z. Gorkin, L. V. Tat'yanenko, N. N. Suvorov, and A. D. Neklyudov Comparative Study of Ribosomes of Chloroplasts and Cytoplasm of Certain Plant Species		1036
-M. S. Odintsova, V. I. Bruskov, and E. V. Golubeva		1047
Strain B-1-I. I. Kareva, Z. S. Kagan, and V. L. Kretovich		1060.
-R. A. Zakharyan, T. V. Venkstern, and A. A. Baev		1008
Phosphorylated Derivatives of Iminazole and Histidine—S. E. Severin, E. I. Koroleva, and R. A. Zavalishina.		1085
Induction of Asparaginase and Glutaminase Activities in Pseudomonas sp. by Aspartic and Glutamic Acids—S. R. Mardashev, A. Ya. Nikolaev, L. P. Evseev, and		
V. V. Eremenko		1093
L. V. Avdeeva, I.I. Votrin, and S. S. Debov	911	1099
Volume 32, Number 6, Part 1 November-December, 1967		
Effect of n-Propylgaliate and Cysteine on the Quarternary Structure of D-Glyceraldehyde- 3-Phosphate Dehydrogenase from Rabbit Muscle-A. I. Agatova	915	1107
and B. I. Gorenshtein		1115
Intestinal Tract—M. P. Chernikov, G. V. Nikol'skaya, and E. Ya. Stan Binding of Potassium and Sodium by Phospholipids of Normal Tissues and Tumors I. D. Bonzalton, F. V. Dustlevitskeye, and F. D. Vraceveskii		1122
-L. D. Bergel'son, E. V. Dyatlovitskaya, and E. D. Krasovskii	950	1128 1134 Egnta)
Available From Consultants Bureau		

BIOKHIMIYA Vol 32, No 1-6, 1967

	Engl.	/Russ.
Incorporation of C ¹⁴ -Alanine into Nuclear Proteins of Cells from Regenerating Livers of Irradiated and Unirradiated Rats-V.D. Blokhina, E. F. Romantsev, and		
L. F. Romanova	944	1145
M. A. Guberniev, and T. G. Shorosheva	947	1149
Chromatography-I. A. Shabanova	952	1155
-I. V. Rodionova and G. K. Shipintsina	958	1161
γ-Irradiated Lysozyme-V. I. Maksimov, V. I. Osipov, and E. D. Kaverzneva Protein (Pepsin) Decarboxylation and Mass-Spectrometric Analysis of the Resultant CO ₂	964	1169
-L. S. Shkarenkova, L. M. Ginodman, L. V. Koziov, and V. N. Orekhovich Purification and Investigation of Some Properties of α -Glucosidase from Rabbit Muscle	969	1175
-N. F. Pisarenko	973	1181
I. P. Galich	977	1186
Volume 32, Number 6, Part 2 November-December, 1967		
Precipitation with Chloroform as a Technique for Investigating the Denaturation and		
Degradation of DNA -V. N. Lytsov, Yu. Sh. Moshkovskii, and I. A. Tubasova	985	1195
Splitting of Glycogen and Maltose by Rabbit Liver γ -Amylase in the Presence of		
Various Sugars and Their Derivatives - D. M. Belen'kii and E. L. Rozenfel'd	990	1201
Separate Determination of Vitamin A-Aldehyde and Vitamin A-Acid -A. A. Dmitrovskii	007	1900
and G. V. Eremina	997 1006	1209 1220
Comparison of the Molecular Species of Phosphatidyl Ethanolamines and Phosphatidyl Cholines—E. V. Dyatlovitskaya, V. I. Volkova, and L. D. Bergel'son	1011	1227
Protective Action of Substrates during Inactivation of NAD·H ₂ -Oxidase and Succinate Oxidase by Cobra Venom and Trypsin-V. N. Luzikov, M. M. Rakhimov,		
V. A. Saks, and I. V. Berezin.	1017	1234
Kinetic Study of the Transamination of the Ketoanalogs of Valine and Isoleucine with		
Glutamic Acid in Aspergillus niger - Z. S. Kagan and T. V. Doronina	1023	1242
-M. E. Ladygina, M. I. Tukeeva, and B. A. Rubin	1028	1248
Kinetics of the Enzymatic Hydrolysis of Phenyl Acetate—R. I. Volkova	1032	1253
-G. A. Sevastyanova	1038	1260
Inhibition of the Oxidation of Succinic Acid by Oxaloacetate—A. D. Vinogradov Effect of Enzymatic Degradation of Deoxyribonucleoproteins in Vitro on Their	1046	1271
Interaction with Heparin-N. V. Ermolaeva, M. Skalka, and I. Matyashova	1052	1278
CHRONICLES		
Fourth Conference of the Faderation of European Biochemical Societies (July 3-7, 1967,		
Oslo, Norway) -Z. S. Kagan	1058	1285
INDEX		
Author Index, Numbers 1-6, 1967	1065	
Tables of Contents, Numbers 1-6, 1967	1069	

Available From Consultants Bureau

DOKLADY AKADEMIY NAUK SSSR, MATHEMATIKA Vol 178, No 1-6,1968

		_
	Russian page nos.	Page
Adamjan, V. M. Canonical differential operators in Hilbert space		1
Al'ber, S. I. Spaces of mappings into a manifold with negative curvature		6
Bodin, N. A. On the theory of grouped samples		10
Vol'f, Verner Some limit theorems for large deviations		14
Holsztyński, W. Minimal Hausdorff spaces and T ₁ -bicompacta		18
Ibragimov, N. H. Generalized motions in Riemannian spaces	(27–30)	21
Kužel', A. V. Spectral analysis of unbounded nonselfadjoint operators in a space with indefinite metric	(31–33)	25
Petrosjan, L. A. A mapping on a family of differential games of pursuit	(34-37)	28
Proizvolov, V. V. The power of systems of open subsets in a dyadic bicom-	(38–39)	32
Timan, M. F. Some identities for functions of several variables, and their	(30-39)	34
application	. (40–42)	35
Fomin, V. N. Dynamic instability of linear systems with almost periodic	•	
coefficients		38
Hapacy, M. M. Instability for constantly operating perturbations		43
Candirov, G. I. The weak solution of a mixed problem for a hyperbolic equa- tion with a nonlinear part		48
Abazaliev, A. K. Ju. Characteristic coefficients of two-dimensional distributions and their applications	- . (263–266)	52
Berman, D. L. Linear polynomial operators in the complex domain, and Fabe	r	57
· •	(207-270)	<i>)</i> /
Brudovskii, B. S. Associated nuclear topology, mappings of type s, and strongly nuclear spaces	. (271–273)	61
Buharaev, R. G. Sets or corteges of characteristic numbers of stochastic		
matrices		64
Versik, A. M. The axiomatics of measure theory in linear spaces	(278–281)	68
Vinogradov, V. S. An analog of an integral of Cauchy type for analytic func- tions of several complex variables	(282–285)	73
Kutyev, K. M. Some properties of the subsemigroup lattice in a group		77
Lorenc, A. A. Representations of sets of solutions of systems of equations	(000 100)	• •
with one unknown in a free group	(290–292)	81
Medvedev, G. N. Asymptotic solution of some systems of differential equa-	\ 	- -
tions with deviating argument	(293–295)	85
Poljakov, E. A. Some properties of algebras of recursive functions		88
Strahov, V. N. Numerical solution of incorrect problems representable by	•-•	•
convolution integral equations	(299-302)	91
		(Contd)

Available From The American Mathematical Society Vol 9, No 1, Jan-Feb 1968

DOKLADY AKADEMIY NAUK SSSR, MATHEMATIKA Vol 178, No 1-6, 1968

	Russian page nos.	Page
Fuks, D. B. Maslov-Arnol'd characteristic classes	. (303–306)	96
Smel'kin, A. L. On solvable group varieties		100
Sugrin, S. M. Difference schemes for symmetric differential equations	(311–313)	104
Ščerbina, G. V. A boundary value problem for second-order differential equa	,	
tions on the half-axis	(314–316)	108
Vinogradov, S. A. Paley features and Rudin-Carleson interpolation theorems		
for some classes of analytic functions	. (511–514)	111
Gel'man, A. E. Properties of bounded solutions of linear differential equa-		
tions in B-spaces		115
Gudiev, A. H. Solvability in W_2^1 of the first boundary value problem for elli	D-	
tic equations of second order with divergence for principal part		118
Dobrohotov, I. S. On tests of a general linear hypothesis with unknown obse		
vation weights		123
Esimov, B. Mappings of zero-dimensional bicompacta		126
Il'jasov, 1. Summation of composite functions of the Euler function		130
Kristalinskii, R. H. On the existence of complete homeomorphisms for some		
quaternionic equations	. (533–534)	135
Ktylov, A. L. Difference approximations to differential operators of mathe-	4	
matical physics		138
Nasibullov, H. H. On recursive functions with large range		143
Sirota, S. On k-points of topological spaces	. (542–545)	147
Smirnov, Ju. M. Lines of equal values of μ in the instability zones for the		
Mathieu equation	. (546–547)	151
Sobolevskii, P. E. The Bubnov-Galerkin method for parabolic equations in		
Hilbert space		154
Stecenko, V. Ja. Spectral properties of irreducible operators		158
Filippov, V. V. On feathered paracompacta		161
Semetkov, L. A. Factorization of finite groups		165
Berlinskii, A. N. On the number of elliptic domains adherent to a singularity		169
Bibikov, Ju. N. On the convergence of solutions of the Cartwright-Littlewood		
equation		174
Vasil'eva, A. B. and Tupčiev, V. A. Periodic nearly-discontinuous solutions	•	
of systems of differential equations with a small parameter in the deriva-	/2/2 =50\\	
lives	. (767–770)	179
Golodec, V. Ja. Certain properties of representations of an infinite-dimen-	(97) 772\	184
sional Clifford algebra		-
Egorov, V. and Podstavkin, Ju. On a definition of dimension	(774–777)	188
Zaicev, V. Some classes of topological spaces and their bicompactifica-	(778–779)	192
tions		194
Zaicev, D. I. Groups satisfying a weak minimal condition		
Isaev, L. E. A class of operators with spectrum concentrated at zero		198
Taïclin, M. A. Algorithmic problems for commutative semigroups		201,
Straus, A. V. Extensions, characteristic functions and generalized resolvent	(790–792)	204
of symmetric operators	(174-174)	205
Guraril, V. P. The structure of primary ideals in the rings of functions inte-	(991-994)	209
grable with increasing weight on the half-axis		ontd)
	, , ,	

Available From The American Mathematical Society Vol 9, No 1, Jan-Feb 1968

DOKLADY AKADEMIY NAUK SSSR, MATHEMATIKA Vol 178, No 1-6, 1968

	Russian page nos.	Page
Guseinov, A. I. and Rasulova, G. A. A mixed problem for a class of quasi- linear differential equations of the third order		214
Iskenderov, A. D. Inverse boundary value problems with unknown coefficients		
for some quasilinear equations	. (999–1002)	218
Kakičev, V. A. Boundary value problems of linear conjugation for functions		
holomorphic in bicylindrical regions		222
Kogalovskii, S. R. Some remarks on higher-order logic		227
Ljustetnik, L. A. Some systems of symmetric functions	. (1010–1012)	230
Osipov, L. V. Accuracy of the approximation of the distribution of a sum of	4	
independent random variables to the normal distribution		233
Osipova, V. A. On the identity problem for finitely presented semigroups	. (1017–1020)	237
Stecenko, V. Ja. On a method of accelerating the convergence of iteration		
processes		241
Havin, V. P. Approximation in the mean by analytic functions		245
Cistakov, A. L. Infinite Hermite matrices with operator coefficients		249
Arsen'ev, A. A. Scattering of a plane wave on a singular potential	. (1231–1233)	253
Buhštaber, V. M. and Miščenko, A. S. Elements of infinite filtration in K-theory	. (1234–1237)	256
Volkov, Ju. A. Estimation of the deformation of a convex surface as dependent on the change of its inner metric	. (1238–1240)	260
Gel'man, A. E. and Geršt, E. N. A generalization of Ljapunov's first stability theorem for certain classes of differential equations in Banach		
spaces	. (1241–1244)	264
Kaplan, A. A. Determination of the extremum of a linear function on a conver		
set		269
Kuznecov, V. Spaces of closed subsets		272
Mysovskih, I. P. On the construction of cubature formulas with fewest nodes	(1252–1254)	277
Pasynkov, B. A. Sections over zero-dimensional subsets of quotient spaces		
of locally compact groups	(1255–1258)	281
Ul'janov, P. L. Imbedding of certain classes of functions of one variable	. (1259–1262)	285
Fuksman, A. L. Approximation of functions of real variables by algebraic		
polynomials in a closed domain	. (1263–1266)	289
Cekanovskii, E. R. Generalized selfadjoint extensions of symmetric operators	(1267—1270)	293
Table of contents for the next issue (Vol. 9, no. 2, March-April, 1968; Russia	an original	
Tom 179, nos. 1-6		. 296-a

CORRECTIONS

The following corrections have been made by the author:

- S. A. Lomov, On a method of regularizing singular perturbations, Vol. 8,(1967), no. 6, 1383-1587 (Russian pages Tom 177, 1273-1276).
 - 1. On page 1584, line 3, $\psi(x) \neq 0$ should be $\overline{\psi}(x) \neq 0$.
 - 2. On page 1586, equation (13) should be

 $\psi'' + \iota \psi = F(\iota)$

Available From The American Mathematical Society Vol 9, No 1, Jan-Feb 1968

DOKLADY PHYSICAL CKL ISTELY

A translation of the Physical Chemistry Section of Doklady Akademii Nauk SSSR

Volume 178, Numbers 4-6

February, 1968

CONTENTS

	Engl	./Russ.
A General Theory of the Surface Photoelectric Effect at a Metal-Electrolyte Interface		
-A. M. Brodskii and Yu. Ya. Gurevich	85	868
and K. V. Chibisov	. 89	872
Mass Spectra—I. V. Gol'denfel'd and I. Z. Korostyshevskii	42	876
-I. P. Gragerov, V. K. Pogorelyi, and A. I. Brodskii		880
G. V. Tsitsishvili, A. A. Balandin, T. G. Andronikashvili, and A. Yu. Krupennikova	99	883
N. P. Goryunova, and D. S. Tsiklis	102	886
B. A. Krentsel', and V. A. Kargin	105	889
and I. M. Skvortsov	109	893
TV, E. holmogorov and A. N. Sidorov	113	897
—G. S. Blyskoth, L. P. Yanova, and A. B. Taubman	116	1109
N. G. Zharkova, and V. N. Luk'yanovich	119	1113
and L. I. Bezruk		
Fluids - P. F. Ovchinnikov, N. V. Mikhailov, and P. A. Rebinder		
-A. T. Podkhalyuzin and I. V. Vereshchinskii	129	1123
Oxide—L. A, Sazonov, V. D. Sokolovskii, G. K. Boreskov, and G. N. Mitrofanova		
-A. E. Fainerman, Yu. S. Lipetov, and V. K. Maistruk NMR Spectra and Association of Di- and Tri-Phenois-A. I. Stockkii, V. S. Kuts.	134	1120
and V. D. Polthodenko	187	1356
I. M. Fridman, P. V. Koulov, and V. A. Kargin		1360 Contd

Available From Consultants Bureau

CONTENTS

DOKIADY AKADEMIY NAUK SSSR Vol 178, No 4-6, February 1968

(continued)

The Russian press dates (podpisano k pechati) of the first and last issues covered in this issue of the translation were, respectively, 1/30/1968 and 3/19/1968. Publication of the material translated in this issue therefore is known to have occurred not prior to the earlier of these dates, but must be assumed to have taken place at intervals starting reasonably soon after this date and ending shortly after the later date,

Available From Consultants Bureau

DOKLADY AKADEMII NAUK SSSR EDITORIAL BOARD L. A. Artsimovich N. M. Émanué! A. N. Frumkin A. N. Kolmogorov D. S. Korzhinskii E. M. Kreps S. A. Lebedev V. V. Menner A. L. Mints A. I. Oparin (Editor) Director, Institute of Biochemistry Academy of Sciences of the USSR A. V. Peive Ya. V. Peive G. A. Bazuvaev M. A. Sadovskii L. I. Sedov (Associats Editor)

Soviet Physics DOKLADY

A Translation of the "Physics Sections" of the Proceedings of the Academy of Sciences of the USSR

(Russian Original Vol. 179, Nos. 1-3, March, 1968)

Vol. 13, No. 3, pp. 173-274

September, 1968

Vol. 13, No. 3, pp. 173-274		Sept	embe	r, 1968
CONTENTS				. RUSS.
AERODYNAMICS				
Investigation of the Pattern of Three-Dimensional Supersonic Flow Past a Segment-Shaped Body. V. B. Minostsev, G. F. Telenin,				
and G. P. Tinyakov	(T)	173	2	304
ASTRONOMY				
Determination of the Chemical Composition of the Venus Atmosphere				
by the Venus-4 Space Probe. A. P. Vinogradov, Yu. A. Surkov,				
K. P. Florenskii, and B. M. Andreichikov	(E)	176	1	37
Radiation Diffusion in a Medium of Large Optical Thickness with Nonisotropic Scattering. V. V. Sobolev	(T)	180	1	41
e Necessity of a Neutral Hydrogen Period in the Evolution	(,			
of the Universe. R. A. Syunyaev	(T/E)	183	1	45
Temperature, Pressure, and Density of the Atmosphere of Venus				
According to Data Measured by the Automatic Interplanetary Station "Venus-4". V. S. Avduevskii, N. F. Borodin,				
V. V. Kuznetsov, A. I. Livshits, M. Ya. Marov, V. V. Mikhnevich,				
M. K. Rozhdestvenskii, and V. A. Sokolov	(E)	186	2	310
Determining the Luminosity Function and Star Density in the			_	
Neighborhood of the Sun. M. A. Arakelyan	(T)	190	3	555
CRYSTALLOGRAPHY				
Crystal Structure of LiCd[MoO4]OH. B. M. Kobtsev, Yu. A. Kharitonov,	(E)	193	1	84
E. A. Pobedimskaya, and N. V. Belov	(E)	193		0.4
G. M. Zaretskaya, N. M. Kamentseva, and L. I. Fel'dgun.	(E)	196	1	88
CYBERNETICS AND CONTROL THEORY				
Regularization of a Problem on the Encounter of Motions.				
N. N. Krasovskii	(T)	198	2	300
			!	(Contd)
Available From The American Institute of Physics				

DOKLADY AKADEMIY NAUK SSSR, FIZIKI Vol 179, No 1-3, Mar 1968

Vol 179, No 1-3, Mar 1968				
		1		. Russ.
		PAGE	ISSUE	PAGE
MECHANICS			:	
Stability of Solutions of the Differential Equations for the Autonomous				
Determination of the Coordinates of a Moving Object.				
V. N. Koshlyakov, Yu. B. Lyusin, V. A. Storozhenko,				
M. E. Temehenko, and I. Sh. Shul'man	(T)	201	1	34
	1-7		_	•-
PHYSICS				
Effect of Resonator on Intensity Distribution in Raman Scattering	/***			
Spectra of Light. I. L. Babich, I. I. Kondilenko, and P.A. Korotkov.	(E)	203	1	48
The Fine Structure of the Vibrational-Rotational Spectrum of Water				
Vapor. V. E. Zuev, I. I. Ippolitov, Yu. S. Makushkin, A. A. Orlov,	/m / m	0.05		
and V. V. Fomin.	(T/E)	205	1	51
Green's Functions for Quantum Fermi Systems of Charged Colliding	(TP)	000		
Particles. V. N. Mel'nikov	(T)	208	1	55
Destruction of the Latest Photographic Image in an Electric Field.	(77)		-	5.0
D. M. Samoilovich and I. V. Ardashev	(E)	211	1	59
Dependence of Degree of Polarization of Porphyrin Fluorescence				
on Emission Wavelength. A. N. Sevchenko, V. A. Mashenkov,	(T)\	01.0	-	0.5
and K. N. Solov'ev	(E)	213	1	61
The Theory of Stimulated Rayleigh-Wing Scattering. V. S. Starunov	(T)	217	1	65
Investigation of the Crystallization Kinetics of Amorphous Antimony				
Films by Electron-Diffraction Patterns. G. A. Éfendiev	(TP)	000		21.4
and F. I. Aliev	(T)	220 223	.2 3	314· 558
Single-Mode Open-Cavity Resonators. V. P. Maslov and E. M. Vorob'ev.	(T)	223	J	990
Polarized Laser Radiation from Solutions of Organic Dyes.	(E)	226	•	562
A. N. Sevchenko, A. A. Kovalev, V. A. Pilipovich, and Yu. V. Razvin. Ruby Maser with Optical Pumping. G. M. Khaplanov	(E) (T)	229	3 3	566
Ruby Maser with Optical Pulliping. G. M. Knapianov	(1)	223		300
ECHNICAL PHYSICS			•	
Experimental Verification of the Temperature Distribution in the Area				
of Laser-Radiation Action on a Metal. V. F. Veiko, A. N. Kokora,				
and M. P. Libenson.	(E/T)	231	1	68
Static Distortion in a Nickel-Tungsten Solid Solution. E. Z. Vintaikin,				
G. G. Gegiadze, and Yu. D. Tyapkin	(E/T)	234	1	72
Structure of Amorphous Carbon Films. B. T. Boiko, L. S. Palatnik,		,		
and A. S. Derevyanchenko	(E)	237	2	316
Structural States during Eutectoid Decomposition of the γ Solid Solution				
of Sn in Cu. M. I. Zakharova and I. B. Mogarycheva	(E)	241	2	320
Zone Refining in Solid State. D. S. Kamenetskaya, I. B. Piletskaya,			_	
and V. I. Shiryaev.	• (E)	245	2	323
The Interaction of Microcracks in Concrete. V. G. Pashkovskii,			_	
N. V. Mikhailov, and P. A. Rebinder	(T/E)	248	2	327
Recrystallization Diagram of Vacuum-Smelted Copper.	(-		•	00.
T. V. Simonishvili and R. F. Filimonova	(E)	251	2	331
Field-Emission Patterns of a Tungsten Single Crystal in the Case				
of Hydrogen Adsorption. A. P. Komar, Yu. K. Ustinov,	473	050		FA0
and V. D. Belov	(E)	253	3	568
Generation of Radiation at 0.63 and 3.39 \mu in a Helium-Neon Laser				
with Three Mirrors. B. P. Konstantinov, O. B. Gusev.	/EN	050	•	201
and V. B. Konstantinov	(E)	256	3	571
Relationship of Creep Characteristics Obtained by Different Deformation Methods. M. P. Markovets and L. I. Kurten	(E)	259	3	575
Delot mation Mathods. M. P. Markovets and L. I. Aurtan	(E)	600	_	_
				(Contd)

DOKLADY AKADEMIY NAUK SSSR, FIZIKA Vol 179, No 1-3, Mar 1968

		PAGE		RUSS.
Factors Determining the Formation of Powder Particles				
during Atomization by a Gas Stream. I. M. Fedorchenko				
and O. S. Nichiporenko	(E)	262	3	578
New Method of Measuring Heat Capacity at Low Temperatures.				
M. Sh. Yagfarov	(E)	265	3	581
THEORY OF ELASTICITY				
Effect of Imperfection of Rigid Clamping of a Shell Edge on Loss				
of Stability. A. V. Pogorelov	(T)	268	2	308
The Accuracy of the Kirchhoff-Love Hypothesis in Determining Critical				
Forces in the Theory of Elastic Stability. A. N. Guz'	(T)	270	3	552
ERRATA		272		

Available From The American Institute of Physics Vol 13, No 3, Sept 1968

DOKIADY AKADEMIY NAUK SSSR, MATHEMATIKA Vol 179. No 1-6, 1968

	Russian page nos	. Page
Bakel'man, I. Ja. Quasilinear elliptic equations and the construction of a		•
hypersurface of a given mean curvature	(9–12)	297
Berkovič, Ja. G. The structure of a group and the structure of its subgroups	(13-16)	301
Komlenko, Ju. V. and Tonkov, E. L. A periodic boundary value problem for		
an ordinary second-order differential equation	. (17–19)	305
Millionščikov, V. M. Metric theory of linear systems of differential equation.	s (20–23)	309
Ovčinnikov, I. S. Nonexistence of mappings of class $BL^{n/2}$ from a sphere		
onto a domain		314
Poljakov, V. Z. Uniformities on X and topologies on $\mathfrak{H}(\S(X))$	(28–29)	318
Salii, V. N. Transformative semigroups $(\emptyset, o, \xi, \chi, \chi)$	(30–33)	320
Agaionov, V. N. Normal sequences and finite automata		324
Aliev, M. S. Best approximation of continuous functions in the C[a, b]		
metric by generalized polynomials		326
Gabdulhaev, B. G. Approximate solution of singular integral equations by th		
method of mechanical quadratures	(260–263)	329
Gel'man, I. V. Stability of abstract boundary value problems in a bounded	(044 044)	
region under weak perturbations of boundary operators	(264–266)	333
Gudiev, A. H. The Cauchy problem for normally hyperbolic equations with unbounded coefficients	(267–270)	336
Efimov, B. Absolutes of homogeneous spaces		341
Kasymov, K. A. The initial jump problem for nonlinear systems of differential		741
equations containing a small parameter		345
Komjak, I. I. An integral equation of convolution type with N kernels		350
Laptev, G. I. Boundary value problems for second-order differential equation		
in Hilbert space with a variable selfadjoint operator		354
Lokucievskii, O. V. On dimension theory		359
Ronkin, L. I. The growth of plurisubharmonic functions and the distribution	,,	•••
of the values of entire functions of many variables	. (290–292)	362
Hoàng Tuy On linear inequalities		366
Čarušnikov, V. D. Asymptotic optimality of cubature formulas with a		
Sobolev regular boundary layer	. (297–299)	370
Andrunakievič, V. A. and Rjabuhin, Ju. M. On the existence of the Brown-		
McCoy radical in Lie algebras	(503-506)	373
Berman, D. L. Some linear polynomial operations in a complex domain	(507-510)	377
Byčkov, B. M. and Grober, V. M. On the nonexistence of an unconditional	•	
basis in the factor spaces L_1/H_0^1 and L'/H_0'	. (511–514)	382
		(Contd)

Available From The American Mathematical Society Vol 9, No 2, Mar-Apr 1968

DOKIADY AKADEMIY NAUK SSSR, MATHEMATIKA Vol 179, No 1-6, 1968

101 1/99 110 1-09 1900		
	Russian page nos.	Page
Gabdulhaev, V. G. A general quadrature process and its application to the approximate solution of singular integral equations	(515–517)	386
Gasymov, V. G. Expansion in solutions of the scattering problem for Schrödinger's nonselfadjoint equation	(518–521)	390
Gel'fand, I. M. and Graev, M. I. Complexes of k-dimensional planes in the space C ⁿ and Plancherel's formula for the group GL (n, C)	(522–525)	394
Zaharov, V. K. and Sarmanov, O. V. Distribution law for the number of		
series in a homogeneous Markov chain		399
Zylev, V. B. G-composedness and G-complementability		403
Kamynin, L. I. Ljapunov-Gunther theorems for special thermal potentials		405
Kantor, I. L. Simple graded infinite-dimensional Lie algebras		409
Millionščikov, V. M. A stability criterion for the probable spectrum of linear		
systems of differential equations with recurrent coefficients and the alm		
reducibility criterion for systems with periodic coefficients		413
Polovinkin, V. I. Weighted cubature formulas		417
Rudyk, B. M. Extensions of modules		420
Samarskii, A. A. Selection of iteration parameters in the method of alternating		(22
directions for a Dirichlet difference problem of higher order of accuracy		423
Bahtin, I. A. Continuation of linear positive functionals		427
Veic, B. E. Lacunary systems of elements in Banach spaces		430
Vinogradov, V. S. The Dirichlet problem for multidimensional elliptic system of second order	(766–767)	435
Votonovskaja, E. V. Construction of extremal trigonometric polynomials of mixed type		438
Iglikov, A. Axisymmetric flows with free boundary	(772–774)	442
Kutyev, K. M. SL-isomorphism of a lattice-ordered group	(775–778)	446
Mil'man, V. D. The basis structure of a B-space and properties of the sphe- invariant with respect to isomorphism		451
Ramazanov, M. D. A priori estimates of solutions to the Dirichlet problem j		
certain hypoelliptic equations		455
the stability of periodic solutions	(1015–1018)	459
Aleksidze, M. Approximate solution of certain infinite systems of equations.		464
Bredihina, E. A. Absolute convergence of Fourier series of almost periodic		•••
functions	(1023–1026)	469
Burago, Ju. D. Mutual restrictions of curvature and area for surfaces lying i	7 (1027 1020)	
a compact part of space		
Vaĭnikko, G. M. On similar operators		477
Dem'janov, V. F. Directional differentiation of the maximin function		481
Dyšin, O. A. Operational method of solving mixed problems for linear differ		484
ential equations of parabolic type with discontinuous coefficients		489
Žuk, V. V. Approximation of periodic functions by linear methods Kruškal', S. L. A class of extremal quasiconformal mappings		494
Lebedev, N. A. and Tamtazov, P. M. Inverse theorems of approximation on	(LVI6-LVI)	777
closed sets of the complex plane	(1046–1049)	498
Croser sers of our comber home	(1010-1017)	(Contd)

Available From The American Mathematical Society

DOKLADY AKADEMIY NAUK SSSR, MATHEMATIKA Vol 179, No 1-6, 1968

	Russian page nos.	Page
Lemmlein, V. G. Distribution over residue classes $\{4k+1\}$ and $\{4k+3\}$ of the number h of ideal classes of real quadratic fields $K(\sqrt{p})$ with prime		
discriminant p = 1 (mod 4)		502
Ljubič, Ju. 1. Convergence of the process of steepest descent		506
Plamenevskii, B. A. Singular integral equations in a cone		509
teristics		512
Stagin, I. V. A contribution to the theory of Orlicz spaces	(1064–1066)	516
rithms of linear programming	(1067–1069)	519
Vinokurov, V. G. and Mahkamov, B. Lebesgue subspaces of the space of trajectories of a random process		523
Gudovič, N. N. The application of difference methods to the solution of non linear elliptic equations		525
Gusakov, V. A. Properties of Temljakov-Bavrin integrals	. (1261–1263)	529
Dynkin, E. B. Diffusion of tensors	(1264-1267)	532
Evdokimov, A. A. Strongly asymmetric sequences generated by a finite number of symbols		536
Landis, E. M. Harnack's inequality for second-order elliptic equations of Cordes type	(1272–1275)	540
Loginov, A. I. Commutative symmetric Banach algebras of operators in the Pontrjagin space Π_1	(1276–1278)	544
Sarmanov, I. O. A generalized symmetric gamma correlation	(1279-1281)	547
Čeremnyh, Ju. N. Estimate of a solution of the first boundary problem for parabolic equations of second order	(1282–1285)	551
Čudnovskii, G. V. Some results in the theory of infinitely long expressions		556
Stern, A. I. Completely irreducible representations of SU(2,1)		560
Table of contents for the next issue (Vol. 9, no. 3, May-June, 1968) Russian	original	864

CORRECTIONS

The following corrections are translated from pp. 758 and 1014 of Tom 179.

E. P. Židkov, and I. V. Puzynin, I. V. The stabilization method of solving boundary value problems for nonlinear second-order ordinary differential equations, Vol. 8 (1967), no. 3, 614-616 (Russian pages Tom 174, 271-273).

On page 616 the first line of 2) of the Theorem should read:

- 2) the boundary problem $v'' + f_{\nu}(x, y(x))v = 0$, v(0) = v(1) = 0 has only the trivial solution ...
- Ju. G. Borisovič and V. F. Subbotin, The shift operator over trajectories of equations of evolution and periodic solutions, Vol. 8 (1967), no. 4, 781-785 (Russian pages Tom 175, 9-12).

On page 784 the last line of Theorem 6 should read:

3) for $\Delta=0$, the index $\gamma(\theta)$ is undefined or is equal to zero according as condition (10) is or is not satisfied.

Available From The American Mathematical Society Vol 9, No 2, Mar-Apr 1968

DOKLADY AKADEMIY MAUK SSSR, MATHEMATIKA Vol 180, No 1-6, 1968

	Russian page nos	. Page
Andrunakievič, V. A. and Rjabuhin, Ju. M. Rings without nilpotent elements,		
and completely simple ideals	(9-11)	565
Bavrin, I. I. Integral representations of holomorphic functions	(12-14)	569
Brudovskii, V. S. s-type mappings of locally convex spaces	(15–17)	572
Židkov, E. P. and Puzynin, I. V. Application of a continuous analogue of		
Newton's method to the approximate solution of a nonlinear boundary value		
problem	(18–21)	575
Krasnosel'skiĭ, V. M. Small solutions of a class of nonlinear operator equa-	(22–24)	579
Landis, E. M. s-capacity and the behavior of a solution of a second-order	(22-24)	319
elliptic equation with discontinuous coefficients in the neighborhood of a	*	
boundary point	(25-28)	582
Poljanskii, A. A. An analogue of the Hardy-Littlewood equation	. (29–31)	587
Sapoženko, A. A. The order of the neighborhood of maximal intervals for		
almost all logical functions		591
Selezeneva, F. G. An initial-value problem for general systems of partial dif-		
ferential equations with constant coefficients		595
Abljalimov, S. B. Integral points in perturbed circles		599
Belova, M. M. Bounded solutions of systems of ordinary second-order differential equations		603
Verner, A. L. The structure of some complete surfaces of nonpositive curva-	(200-200)	00,
ture	. (269–272)	607
Granovskii, B. L. and Ermakov, S. M. A nonparametric approach to the problem		
of designing regression experiments	(273-275)	611
Mihlin, S. G. Some properties of polynomial approximations in the sense of		
Ritz	(276–278)	614
Nagaev, A. V. Integral theorems for large deviations when the Cramér condi-	(270, 201)	617
tion is violated	(279–281)	017
Rybakov, V. I. The Radon-Nikodym theorem and integral representation of vector measures	(282-285)	620
Sil'nikov, L. P. Structure of the neighborhood of a homoclinic tube of an invar		
ant torus	(286–289)	624
Jakubovič, V. A. Sampled-data control systems with pulse-width modulation.	. (290–293)	629
Aleksandrov, P. On the fundamental theorem in the homology theory of dimen		
sion	(519-522)	633
Ivlev, E. T. Generalized equiparametric manifolds in multidimensional project	;•	
tive space	(523–525)	(Contd)
Krasinskii, G. A. Parametric resonance in canonical systems of linear dif-	·	
Available From The American Mathematical Society Vol 9, No 3, May-June 1968		

DOKLADY AKADEMIY NAUK SSSR, MATHEMATIKA Vol 180, No 1-6, 1965

	Russian page nos.	Page
ferential equations with quasiperiodic coefficients		641
Livčak, Ja. B. An approach to the notion of limit		645
Lifanov, I. K. The dimensionality of the product of unidimensional bicompacta		648
Rogožin, V. S. On the theory of Riemann's problem in the class L,		652
Roitberg, Ja. A. Theorems on homeomorphisms induced by elliptic operators	(542-545)	656
Fedorčuk, V. O-proximities and O-absolutes		661
Cekanovskii, È. R. On the resolvent of generalized selfadjoint extensions of symmetric operators		665
Gel'fand, I. M. and Kirillov, A. A. On the structure of the field of quotients of the enveloping algebra of a semisimple Lie algebra		669
Gromov, V. P. Sequences of linear aggregates of functions of several com-	(112)	007
plex variables	(778–781)	672
Džibašjan, M. M. Extension of Denjoy-Carleman quasianalytic classes		676
Zaharjuta, V. P. Quasiequivalence of bases at finite centers of Hilbert scales		681
loffe, A. D. and Tihomirov, V. M. Duality in problems of the calculus of vari-		
ations	(789-792)	685
Li Hoang Tu Approximate minimax property of the R ² test		689
Rubinov, A. M. Dual models of production		691
Phan Đinh Diêu On spaces of constructive infinitely differentiable functions and on functionals in them	(799–802)	695
Freïvald, R. V. Completeness up to coding of systems of functions of k-valued		400
logic and the complexity of its determination		699 - 00
Amstislavskii, V. I. Expansion of recursive hierarchies and R-operations		703
Bojarincev, Ju. E. and Vasil'ev, V. G. Convergence of approximate solutions		707
of an operator equation		710
Natanson, G. I. Approximations of discontinuous functions by Fourier sums		714
Pogorelov, A. V. A variational problem in parametric form		719
Rasulov, M. L. The fundamental matrix of solutions of the system for the spec-		721
ral problem for heat and mass exchange	. (1039—1040)	121
neutral type with a small delay	(1041-1044)	724
Černavskii, A. V. The k-stability of homeomorphisms and the union of cells	(1045-1047)	729
Salaevskii, O. V. The minimax character of Hotelling's T2 test	•	733
Voronovskaja, E. V. Structural properties of some defining functionals		737
Gudiev, A. H. On the boundary value problem for linear parabolic equations		
with discontinuous coefficients		742
the introduction of a continuous parameter	(1279-1282)	747
Ivlev, E. T. A multidimensional surface in projective space		751
Karacuba, A. A. Character sums and primitive roots in finite fields	(1287-1289)	755
Lozner, L. G. Coefficients of extremal polynomials and Čebyšev alternances	(1290-1293)	758
Milin, I. M. Adjacent coefficients of univalent functions		762
Narzullaev, H. N. On the Minkowski problem relative to a system of inhomo-	(1200 1200)	-//
geneous linear forms	. (1298–1299)	766 (Contd)

Available From The American Mathematical Society Vol 9, No 3, May-June 1968

DOKLADY AKADEMIY NAUK SSSR, MATHEMATIKA Vol 180, No 1-6, 1968

	Russian page nos.	Page
Rasulov, M. L. Solution of the Cauchy problem and of the mixed problem for a parabolic system	(1300-1302)	768
Rusanov, V. V. Difference schemes of the third order of accuracy for a continuous computation of discontinuous solutions	(1303–1305)	771
Slugin, S. N. An analog of the topology of the space of measurable functions in a K-lineal with unity	(1306–1308)	775
Table of contents for the next issue (Vol. 9, no. 4, July-August) Russian original Tom 181, nos. 1-5		.778-a

CORRECTIONS

The author has called attention to the following misprint.

V. M. Kokilašvili, Approximation in the mean of analytic functions of class E_p , Vol. 8 (1967), no. 6, 1393-1397 (Russian pages Tom 177, no. 2, 261-264):

In equations (3) on page 1394 and (8) on page 1396, the term $\nu^{\beta_{k}-1}$ should be $\nu^{\beta \cdot k-1}$.

Available From The American Mathematical Society Vol 9, No 3, May-June 1968

SOVIET ELECTROCHEMISTRY

A translation of Élektrokhimiya

Volume 4, Number 3

March, 1968

CONTENTS

	Engl	./Russ
Flectrochemical Processes on the ZnO Electrode. I-D, M. Shub, V. P. Pakhomov,		
and V. I. Veselovskii	225	259
-V. V. Losev and A. P. Pchel'nikov	230	264
Characteristics of the Phase Changes -F. I. Kukoz, N. I. Sannikov, and V. I. Makarov	239	274
Manganese Dioxides - V. N. Dam'e and É. A. Mendzheritskii	244	280
Kinetics of Anodic Oxidation of the Azide Ion-L. I. Krishtalik and G. E. Titova	249	285
BRIEF COMMUNICATIONS		
Catalytic Acceleration of the Protonization of Nitro-Compounds during Their Electrochemical		
Reduction-V. N. Leibzon, V. M. Belikov, and S. G. Mairanovskii		290
and Yu. V. Alekseev	257	294
-Yu. M. Loshkarev, L. P. Snetkova, V. N. Kovtun, and N. P. Tkalik	261	298
Z. M. Sominskaya, and A. T. Vagramyan		302
A. A. Sotnikov, O. A. Esin, and L. N. Barmin	268	304
and A. B. Fasman	271	307
Current Generation in Liquid Films Stabilized by Evaporation—Yu. G. Chirkov	275	311
-J. Gonz, S. S. Beskorovainaya, Yu. B. Vasil'ev, and V. S. Bagotskii	280	315
and L. A. Korshikov	283	318
and Yu, F. Budeka	200	321
Phenomenology of the Formation of an Electrolytic Film on a Partially Immensed Electrode,	200	341
II -V. A. Shepelin	290	326
Exchange Currents between Liquid Manganese and an Oxide Melt-P. I. Buler		
and Yu, P. Nikitin	293	330
Evolution of Hydrogen on a Platinized Platinum Electrode S. B. Gurtman, Yu. M. Povarov,		
and P. D. Lukovtsev		333
-É, G, Novakovskaya	_	336 Contd

CONTENTS

(continued)

ELEKTROKHIMIYA Vol 4, No 3, 1968

VOI 4, NO 3, 1900	Engl./	Russ.
Adsorption and Electrooxidation of Methanol at a Platinized Platinum Electrode Using an Analytical Method—B. I. Podlovchenko, A. N. Frumkin, and V. F. Stenin	303	339
V. T. Doronin, and A. P. Vergun	307	344
Electrolyte Concentration in the Diffusion Layer—A. Sh. Valeev and V. P. Gubskaya Effect of Mobility of Nondischarging Particles on Limiting Currents during Anion Reduction	309	345
-V. V. Malev and R. V. Balukov	312	348
and E. S. Svetashova	317	354
Cathode—L. G. Feoktistov and M. M. Gol'din	320	356
-A. M. Bograchev, A. G. Pshenichnikov, and R. Kh. Burshtein	322	358
and N. 1. Dubrovina	325	362
G. N. Trusov, E. P. Gochalieva, and V. M. Novakovskii	329	366
LETTERS TO THE EDITOR Anodic-Cathodic Activation of a Platinum Electrode—O. A. Petrii and I. G. Shchigorev	332.	370
and A. A. Berlin	333	371
and N. T. Kudryavtsev	334	372

The Russian press date (podpisano k pechati) of this issue was 3/14/1968. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available From Consultants Bureau

TELECOMMUNICATIONS and RADIO ENGINEERING

1968	NUMBER 3
	Page
Part 1	
ELEKTROSVYAZ Vol 22	
B.I. Chirkov: Immunity of PSK and RPSK Detectors to Sinusoidal Interference Yu.F. Marchenko: The Permissible Amplitude-Modulation Interference in a Radio	
Relay System	
for the V-3-3S Apparatus	
Coaxial Feeders	
istic Parameters	40 44
N.N. Ol'shevskiy: SSB Signal Shaping Filters	47
Code Reception	51
BRIEF COMMUNICATIONS	
A.N. Zeliger: Methods for Investigating Phasing Systems	
V.A. Vorontsov and G.A. Poliyevskiy: A Synchronization Method for Pulsed Communication Links	59
Part 2 RADIOTEKHNIKA Vol 23	
V.S. Ponkratov and O.Ye. Antonov: Univariate Probability Density of an Oscillation	
Amplitude and Frequency Modulated by Random Processes	- 61
Four-Poles with a Short-Circuited Side (Three-Poles)	64
Nonsymmetrical Parabolic-Section Antennas	
V.A. Leont'yev Antenna-Gain Measurement Using a Corner Reflector in the Far Zone S.A. Vyshinskiy: Electromagnetic-Wave Propagation in a Screened Helical Line with	73 78
a Dielectric Core Allowing for the Finite Conductivity of the Helix Wire	
Base Cascode IF-Amplifiers	
A.G. Dem'yanchenko: Frequency Divider with Suppressor-Grid Drive	
Accuracy of Recording FM-Signals	102 (Cont

Part 2 RADIOTEKHNIKA Vol 23

	Page
L.Ye. Leykhter: Two-Stage Pulse Integrators with Nonmultiple Time Delays of the Feedback Loops	106
B.V. Perlov and Ye.Kh. Karayerov: Design Formulas for Flip-Flop Using Transistors	100
with Different Types of Conductivity	109
Secondary Emission	112
V.B. Golovchenko: Design of Resistors for High-Frequency Thin-Film Microcircuits	117
I.M. Kogan: Information Theory Analysis of Telepathic Communication Experiments N.M. Sedyakin: Reliability of a Parameter-Monitoring and Element-Switching	122
Automaton	126
BRIEF COMMUNICATIONS	
Yu.P. D'yakov and I.F. Shishkin: Describing the Performance of a Polarimeter	
Antenna	129
V.I. Vladimirov: Probability Density and Numerical Characteristics of a Sinusoidal Oscillation with Angle Modulation at the Output of a Self-Correlator	131
L.P. Merkader: Nonlinear Intermodulation Noise Power in Multichannel Telephone	
Communication Lines with Standard Frequency-Multiplexing Equipment (Practical	104
Design Formulas)	134

EDITOR'S NOTE

With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivlanets is given below.

Soviet Usage	American equivalent
Arch	cosh-1
Areth	coth ⁻¹ (ctnh ⁻¹)
Arsh	sinh ⁻¹
Arth	tanh ⁻¹
arccos	cos-1 (arc cos)
arcetg	cot ⁻¹ (arc cot)
arcsin	sin ⁻¹ (arc sin)
arctg	tan ⁻¹ (arc tan)
ah	cosh
C08 0 C	CSC
etg	cot (ctn)
oth	coth (ctnh)
rot	outl
sch	sech
sh	sinh
tg	tan
th	tanh

Available From The Institute of Electrical and Electronics Engineers , Inc. -168 -

TELECOMMUNICATIONS and RADIO ENGINEERING

1968

Sixth Session of the Popov Society

NUMBER 4

60

(Contd)

	Page
rurt 1	
ELWTROSVYAZ	
Vol 22	
I.F. Smolyanets: A Combined Method for Shaping a Single Sideband Signal	1
Routes	7
System Using Linearly Frequency-Modulated Signals	13
Signals by Means of a Delayless Nonlinear Four-Pole	18
Multiplexed by Multichannel Systems	24
of Metal-Sheathed Cables	28
S.M. Fleysher: A Self-Organizing Receiver for Signals with Unknown Arrival Time	35
N.L. Bezladnov: Penultimate Amplifier Stage with Combined Feedback	40
Response	45
B.I. Voskoboynik: Design of an Emitter Follower with a Compensating Capacitor	50
BRIEF COMMUNICATIONS	
M.S. Nemirovskiy: Simplified Analysis of a Frequency Discriminator with No Amplitude Limiter and Signal Plus Noise Input	57
INFORMATION	

Part 2 RADIOTEKHNIKA Vol. 23 N.A. Milyayev: Theory of the Synchronization of Self-Oscillators Having Nonlinear 66 A.A. Rizkin and M.P. Savitskaya: Analysis of Transients in Selective Parametric 71 Systems 74 79 O.N. Tereshin: Synthesis of a Shaped-Profile Impedance Antenna for Converting a Traveling Surrace Wave to a Plane Wave Having Specified Amplitude Distribution 82 Over the Wavefront A.P. Bilenko: Correlation and Spectrum of Signals in Mobile Radio Communication . . . 89 V.L. Zmudikov: Design of Band-Pass RC Amplifiers 93 96 102 I.S. Andronov and L.M. Fink: Assessing the Performance of Diversity Reception 104

Available From The Institute of Electrical and Electronics Engineers, Inc.

Part 2, Vol 23, No 4, 1968

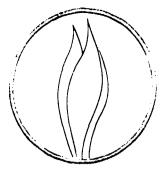
	Page
Yu.M. Davydov: Features of Broadband-Limiter-Narrowband Systems	110
I.A. Novikov: Investigation of a Mixer Tube Modulated Phase Detector B.P. Terent'yev and M.A. El'darov: Amplitude Modulation by Varying the Coupling	115
when Using Compensation of a Controlled Reactive Element	117
Yu.V. Safroshkin: Linear Amplifiers with Relaxation Properties	121
Structure of a Propagating Harmonic in a Slow-Wave System	123
V.Ye. Prozorovskiy: Losses in the Coating of Thin-Film Capacitors	127
with a Single-Layer Winding	131
V.P. Dmitriyev: Self-Synchronization of Digital Communication	135
BRIEF COMMUNICATIONS	
S.I. Yevtyanov: Investigation of Phase-Locked Automatic Control by an Asymptotic	
Method	138
V.I. Golubev: Control of the Pulse Duration of a Blocking Oscillator	140
PROBLEMS OF TERMINOLOGY	
M.P. Dolukhanov: Rationalization of Terminology in the Area of the Propagation of	
Radio Waves in the Optical Band	142
Book Review	144

EDITOR'S NOTE

With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivalents is given below.

Soviet Usage	4	American equivalent
Arch		cosh-i
Arcth		coth-1 (ctnh-1)
Arsh		sinh ⁻¹
Arth		tanh ⁻¹
arccos		cos-1 (arc cos)
arcetg		cot-1 (arc cot)
arcsin		sin ⁻ⁱ (arc sin)
arctg		tan-1 (arc tan)
oh		cosh
coseo		CSC
ctg		cot (ctn)
oth		coth (ctnh)
rot		curl
sch		sech
sh		sinh
tg .		tan
th	;	tanh

Available From The Institute of Electrical and Electronics Engineers, Inc. = 170 -



Soviet Engineering

The Faraday Press cover-to-cover translation of *Elektrotekhnika*

Contents

Volume 36, Number 4-April 1965

		Russian page	English page
Editorial Soard Elektrotekhnika	Transistorized Automatic Control and Protective Systems for Power Installations and Industrial Plants.		
a publication sponsored by the State Committee on Coordina- tion of Scientific Research USSR	V. V. Voronetskii, V. V. Girshberg, and V. V. Khodnev	1	1
A. G. losif'yan Editor-in-Chief G. V. Aleksenko	Khodnev, V. A. Borisov, F. I. Volynstev, and Z. D. Kats	7	9
V. V. Alekseevskii V. A. Baev V. S. Borushko S. I. Bulatkin V. A. Bulgakov L. K. Greiner E. Ya. Kazovskii	V. V. Girshberg, N. P. Kutler, V. V. Khodnev, S. M. Domanitskii, I. V. Prangishvili, and B. P. Petrukhin	11	, · 1 5
K. A. Lyubimov N. S. Lidorenko S. G. Malinin	Hydroelectric Station, A. V. Biryukov, N. P. Kutler, and A. I. Podaruev	15	20
I. S. Nayashkov Z. B. Neiman	A Two-Core Current Transformer for Transistorized Contactless Protection, L. N. Matskevich	18	25
P. Z. Nikitin G. N. Petrov A. A. Rabinovich	Problems in the Design and Construction of Contactless Oscillator-Type Position Switches, Yu. N. Ivenskii, A. A. Leiman, and A. S. Gotovskii Electrochemical Transducers for Measuring Vibrations	20	27
Faraday Advisory Editor	and Weight. N. S. Lidorenko, N. N. Moiseev, G. Ya. Voronkov, and M. A. Gurevich	24	32
B. R. Pamplin . Bath University of Technology	Low-Inertia de Motors for Quick-Acting Automatic Con- trol Systems. B. K. Karpenko	23	34
	New Speed-Stabilized dc Micromotors. E. A. Lodochnikov, E. A. Tsirlin, and V. G. Sheminov.	29	39
Anna 47 a 2 a	Determination of the Starting Time of an Induction Motor. B. V. Men¹kov	31	43
Available From The Farada	By Press, Inc.	(conti	nued)

Single Issue: \$25

Annual Subscription: \$160

© 1938 by The Fersday Press, Inc.
All rights reserved. This publication or parts thereof may not be reproduced in any form without permission of the publisher.

The Faruday Press, Inc.

C4 FIFTH AVENUE, NEW YORK, N. Y. 10311 - 171 -

ELEKTROTEKHNIKA Vol 36, No 4, 1965

	be2e	bede
High-Frequency Rolling-Rotor Motors, V. P. Nanii and E. F. Bessmertnyi Electrical Insulation Coatings by the Fluidized-Bed Technique, A. K. Vardenburg,	32 .	45
P. M. Piliposyan, and O. S. Khas'kin.	34	48
Simplified Current Calculation for Single-Phase Induction Motors, G. V. Ivanova Dielectric Strength of Overhead Line Insulators at Various Levels of Contamination.	37	52
G. N. Aleksandrov and Gu Lo-guan	38	53
Some Properties of Charged Solid Dielectrics. N. E. Zaev and R. P. Kuz'mina	41	59
Commutator Eccentricity in dc Machines at High Speeds. K. K. Namitokov, V. G.		
Brezinskii, and B. B. Kats	44	63
A Procedure for Measuring the Start-Up Processes in the Rotor Cage of Induction		
Motors. L. A. Medinskii	46	67
Combined Testing of Valve Arresters. E. E. Ivatsik	49	71
A Method for Calculating Shafts in Bending, M. A. Barg, Ya. A. Barg, and A. L.		
Livshits	54	77
Design of an Optimally Dimensioned Shell-Type dc Magnet. I. I. Pekker and G. S.		
Lobza	55	80
Conversion of dc to Controlled-Frequency ac for Electric Traction.		
G. P. Dolaberizde	58	84
Thermal Conductivity of the Insulation of Winding Conductors, V. A. Privezentsev		
and E. T. Larina	63	91

Available From The Faraday Press, Inc.

FIZIKA TVERDOGO TELA	EDITORIAL BOARD
A. I. Ansel'm	Ch. B. Lushchik
A. S. Borovik-Romanov	A. N. Oriov
L. N. Dubretsov	A. F. Prikhot'ko
I. P Gor'kov	A. R. Regel'
O. V. Konstantinov	S. M. Ryvkin
	G. A. Smolenskii
M. I. Kornfel'd	V. M. Tuchkevich
(Associate Editor)	B. K. Vainshtein
L. I. Korovin	V. S. Vavilov
(Secretary)	L. F. Vereshchagin
M. I. Korsunskii	S. N. Zhurkov
M. A. Krivoglaz	(Editor)
G. V. Kurdyumov	Leningrad State Universit
r W Lifehita	V. P. Zhuze

Soviet Physics SOLID STATE

A Translation of "Fizika Tverdogo Tela"

(Russian Original Vol. 10, No. 4, pp. 961-1264, April, 1968)

Vol. 10, No. 4, pp. 761-1008

October, 1968

		PAGE	·RUSS. PAGE
Dynamics of a Lattice with Two-Dimensional Defects. Ya. A. Iosilevskii Photoeffect Due to Generation of Excitons in Semiconductors.	(T)	761	961
I. P. Akimchenko, V. S. Vavilov, A. F. Plotnikov, and A. A. Sokolova Transformation of Electromagnetic and Ultrasonic Waves in Piezoelectric	(E)	770	974
Crystals. E. M. Ganapol'skii	(T)	777	982
and V. V. Tarakanov	(E)	785	993
E. M. Ganapol'skii, A. N. Chernets, V. N. Balabanov, and V. E. Popov.	(E)	790	1000
Quantum Mechanics of a Spin Wave in a Ferromagnet. V. M. Tsukernik Stacking Faults in Tungsten. R. I. Garber, Zh. I. Dranova,	(T)	795	1006
and I. M. Mikhailovskii	(E)	799	1012
Films. V. V. Shakmanov and G. V. Spivak Thermal Radiation from Silicon Illuminated by a Laser Beam. S. M. Ryvkin,	(E)	802	1016
V. M. Salmanov, and I. D. Yaroshetskii	(E)	807	1022
Kinetic Properties of Metals in an Electromagnetic Field. V. I. Mandrosov. Effect of Domain Structure on Second-Harmonic Generation in Triglycine	(T)	810	1025
Sulfate Crystals. A. S. Sonin and V. S. Suvorov Spectrum of Exciton Complexes in Hexagonal ZnS Crystals. E. F. Gross,	(E/T)	814	1031
L. G. Suslina, and E. B. Shadrin	(E)	818	1036
Crystals. L. M. Polyakov	(E)	822	1041
of SiO ₂ . V. G. Volod'ko, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum. Electron Emission Due to Bombardment of NaCl and KCl Single Crystals with Slow Inert-Gas Ions Incident at Various Angles. N. N. Petrov.	(E)	828	1048
N. F. Volkov, and A. I. Kondrashev The Distribution Function and the Temperature Dependence of the Mobility in A ^{III} B ^V Semiconductors. N. N. Grigor'ev, I. M. Dykman,	(E)	832	1053
and P. M. Tomchuk	(T/E)	837	1058
L. Ya. Shekun, A. A. Antipin, Z. N. Zonn, A. N. Katyshev, and I. N. Kurkin	(E/T)	843	1065 (Contd)
Available From The American Institute of Physics Vol 10, No 4, October 1968			

FIZIKA TVERDOGO TELA Vol 10, No 4, 1968

, , ,			RUSS.
		PAGE	PAGE
Some Aspects of the Laser Mechanism in CaF ₂ :Dy ²⁺ Crystals. E. M. Zolotov,			
A. M. Prokhorov, and G. P. Shipulo	(E)	848	1071
Alternating Component of the Acoustoelectric Current. P. S. Karla	(75)	050	1000
and É. P. Garshka Magnetic Properties and Crystal Structure of the Solid Solution System	(E)	852	1076
Mg ₂ SnO ₄ = MgFe ₂ O ₄ . V. A. Bokov, G. V. Novikov, O. B. Proskuryakov,			
Yu. G. Saksonov, V. A. Trukhtanov, and S. I. Yushchuk	(E)	855	1080
Oscillations of the Magnetoresistance in HgTe. I. M. Tsidil'kovskii	(2)	000	2000
and A. I. Ponomarev	(E)	859	1085
The Distribution of Structural Defects in Crystals of Synthetic Corundum.			
L. E. Ageeva, M. I. Abaev, and A. I. Kolyadin	(E)	862	1089
Photodegradation Kinetics of Stressed Polymers. G. G. Samoilov			
and É. E. Tomashevskii.	(E)	866	1094
Double Refraction and Dichroism of UHF Waves Due to Hot Electrons in n-Ge	(m / m)	0.70	1000
and n-Si. A. B. Davydov and R. V. Pomortsev Effect of Fluctuations on the Properties of a Superconductor above the Critical	(E/T)	870	1098
Temperature. L. G. Aslamazov and A. I. Larkin	(T)	875	1104
Galvanomagnetic Properties of Tellurium at Very Low Temperatures.	(1)	013	1104
V. A. Noskin, I. I. Farbshtein, and S. S. Shalyt.	(E)	881	1112
Nuclear Magnetic Resonance in Lithium Niobate Crystals. V. L. Bogdanov,			
V. V. Lemanov, V. P. Klyuev, and S. A. Fedulov	(E)	886	1118
Activator-Free Luminescence of Zn(S:Se) Phosphors. S. Asano, K. Omori,			
and T. Sumimoto	(E)	891	1124
Formation of Divalent Anion and Cation Impurity Complexes in KCl Crystals.			
D. N. Mirlin and I. I. Reshina	(E)	895	1129
The Nature of the Secondary Dislocations Observed in Silicon after Diffusion.	(E)	001	1100
V. M. Al'tshuller Luminescence of Nitrogen-Aluminum Complexes in α-SiC (6H).	(E)	901	1136
Yu. S. Krasnov, T. G. Kmita, I. V. Ryzhikov, V. I. Pavlichenko,			
O. T. Sergeev, and Yu. M. Suleimanov	(E)	905	1140
Excitation of Electromagnetic Waves in a Solid-State Plasma Having	ν-/	***	
a Negative Current-Voltage Characteristic. R. R. Kikvidze			
and E. P. Fetisov	(T)	911	1147
Quantum Oscillations of the Thermomagnetic Coefficients for the Phonon			
Drag Effect. Yu. M. Gal'perin	(T)	915	1152
The Effect of Dislocations Upon the Development of Electrolytic Crystal	4		
Coloration. V. D. Belyaev, G. B. Semushkin, and A. N. Tsikin	(E)	921	1160
Potential and Kinetic Electron Emission from the (110) and (111) Faces			
of a Mo Single Crystal. U. A. Arifov, R. R. Rakhimov, and Kh. Dzhurakulov	(E)	925	1166
Equations of Motion of Macroscopic Spin Quantities for Centers with S=I=1/2.	(2)	320	1100
V. Ya. Zevin and B. D. Shanina	(T)	930	1173
Quantum-Statistical Theory of the Transverse Overhauser Effect.	, .		
L. L. Buishvili and N. P. Giorgadze	(T)	937	1181
Behavior of Cesium on the Faces of a Large Tungsten Single Crystal.			
N. A. Gorbatyi, L. V. Reshetnikova, and V. M. Sultanov	(E)	940	1185
The Optical Absorption by F Centers in NaCl Crystals. Z. Ya. Evseev	4 1		
and K. B. Tolpygo.	(T/E)	947	1193
The Nonlinear Theory of Ferromagnetic Resonance. L. V. Kitaev	20 1		1160
and I. G. Fedosceva	(T)	951	1198
Descrition of committee from Tungsten in a Strong Electric Field. G. G. Vladimirov	(E)	957	1207
Or or THEMSHIP TO COLUMN TO THE FOREST TO TH	(B)		Contd)
		(1	

Available From The American Institute of Physics Vol 10, No 4, 1968

Fizika Tverdogo Tela Vol 10, No 4, 1968

		DAGE	RUSS. PAGE
Spin Wave Instability in an Antiferromagnet with an "Easy Axis" Type		7.02	/an
of Anisotropy. Yu. M. Yakovlev	(T)	963	1214
Relaxation of Stresses in Ammonia Single Crystals. A. I. Prokhvatilov	(1)	2 03	1614
and D. N. Bol'shutkin	(E)	966	1218
Quantum-Statistical Theory of Exchange Narrowing. N. S. Bendiashvili,	(2)	300	1240
L. L. Buishvill, and M. D. Zviadadze	(T)	971	1224
	(1)	314	1264
BRIEF COMMUNICATIONS			
F Centers in Hexagonal Boron Nitride Enriched with the B ¹⁰ Isotope.			
M. B. Khusidman and V. S. Neshpor.	Œ)	975	1229
Generation and Reception of Ultrasonic Vibrations by Alkali-Halide Single			
Crystals. Kh. M. Khalilov, A. I. Agaev, V. M. Zuev, and			•
Ya. Sh. Palagashvili	(E)	977	1231
Influence of the Motion of Dislocations on the Ultrasonic Saturation			
of the NMR Line of Cubic Crystals. Yu. A. Grinchenko and B. L. Timan	(T)	979	1233
Nonlinear Absorption in CdSe. A. M. Bonch-Bruevich, T. K. Razumova,			
and G. M. Rubanova	(E)	981	1235
Reflection of Nickel in the Ultraviolet Region at Temperatures below			
and above the Curie Point. R. G. Yarovaya and L. I. Timchenko	(E)	983	1237
Influence of Complex Formation on Impurity Diffusion in Semiconductors.			
V. V. Vas'kin and V. A. Uskov	(T)	985	1239
Determination of the Number of Carriers in Pyrolytic Graphite			
under Pressure. V. V. Kechin, A. I. Likhter, and G. N. Stepanov	(E)	987	1242
Properties of Pb(Ti, Zr)O ₃ Piezoelectric Ceramics and Nature of Their			
Orientational Dielectric Polarization. V. A. Isupov	(E)	989	1244
Diffusion in Al - Sb ₂ S ₃ Films. V. A. Repin, I. T. Aleksanyan,			
and A. F. Oborotov	(E)	992	1246
Paramagnetic Resonance and Spin-Lattice Relaxation of Yb3+ Ions in PbF ₂			
Crystals. A. A. Antipin and I. N. Kurkin	(E)	994	1248
Temperature Dependence of the Hyperfine Interaction Constants of F Centers			
in Lif. N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban,			
and V. V. Udod	(E)	996	1250
Quadratic Electrooptical Effect in Strontium Titanate Single Crystals.			
L. B. Meisner and A. S. Sonin.	(T/E)	998	1252
Investigation of the Charged States of Iron in Some Cobalt Compounds Using			
the Mössbauer Method. A. N. Murin, B. G. Lur'e, and P. P. Seregin	(E)	1000	1254
Correlation between Changes in the Lattice Constant and Electrical			
Conductivity of Lithium Fluoride Single Crystals Due to X-Ray			
Irradiation. L. A. Golubeva and A. A. Shishelov	(E)	1002	1256
Evaporation Kinetics of GaAs. S. A. Aitkhozhin, S. A. Semiletov,			
and V. V. Luder.	(E)	1005	1259

Available From The American Institute of Physics Vol 10, No 4, October 1968

GEOMAGNETIZM I AERONOMIYA No 1, 1968

	English Page	Russian Page
D.A. Belugin: Analysis of Systematic Errors in Horizontal Angles	1	3
I.F. Bolgov: Computing the Stability of Geodetic Centers and Bench Marks at Construction Sites	6	15
S.A. Korobkov: Determining Weighting Factors by Transforming Graphs	. 7	18
R.M. Rondel': Complex Geomorphological Analysis of Topographic Relief in Urban Construction	15	37
Kh.I. Timov: Application of the Theory of Convex Programming to Adjustment of Conditional and Indirect Measurements	20	49
A.T. Cherkoz'yanov: Evaluation of the Accuracy of a Triangulation Chain with Measured Angles and Connecting Sides Extended between Determined Stations	21	51
B.I. Utenkov: Increasing the Accuracy of Small Pulsed-Light Range Finders	30	72
M.M. Mashimov: Adjustment of Measurements on an Electronic Computer by the Group Iteration Method	31	74
L.I. Serebryakova: Accuracy in Coordinate Transformation	34	80
A.A. Kuznetsov: Training Geodesists in Mountaineering	36	84
Yu.V. Plakhov: Solution of the Problem of Motion of a Particle in the Gravity Field of Saturn's Ring	38	88
M.V. Shul'min: Some Results of Errors in Photogrammetric Determinations in a Stereotopographic Survey of a Plains Area with the SD-IM Instrument	42	98
A.P. Yuzelovich: Instruments for Determining Vertical Speed of an Aircraft during an Aerial Gravimetric Survey	44	101
Ye.Ye. Shiryayev: Automation of Readout of Quantitative Information from Special Maps	48	111
V.S. Usov: On the Path of Rays in a Dihedral Reflector with a Cover	52	120
A.I. Golubtsov and V.V. Komarov: A Highly Precise Electronic Centering Instrument	. 33	123
Ya.M. Ivandikov and G. Troshanin: A Mechanical Device for Constructing a Vertical	56	129
B.A. Shapochkin, S.I. Kiryushin and B.V. Grebennikov: Design of a Two-Mirror Aplanatic System	57	132
M.V. Proferansova: Automatic Checking of Errors in Circle Graduations	60	137
A.P. Polezhayev: Optical Instruments Used Abroad in Observing Artificial Earth Satellites for	84	145

IZVESTTYA AKADEMIYE NAUK SSSR, ATMOSFERY I OKEANOLOGICHESKTY Vol 4, No 3, 1968

	Page	
	English	Russiar
V. V. SHULEYKIN. The Climate of Europe as Related to Heat Transfer in the Atlantic V. Ve. ROKOTYAN. Some Group-Invariant Solutions to the Equations of the Dynamics of	139	243
the Atmosphere	148	262
T. Z. SOKHOV AND L. N. GUTMAN, Mesometeorological Solitary Way s	153	271
Motion in Thick Convective Clouds	159	253
and Temperature Profiles in the Atmospheric Boundary Layer. V. B. GLASKO AND Y. M. CIMOYEYEV, The Solution of the Thermal Sounding Problem	165	29-2
for the Atmosphere Using the Regularization Method	175	304
Narrow Beam.	175	311
A. G. KISLYAKOV, V. N. NIKONOV AND K. M. STREZHNEVA, Experimental Study of the Altitude Dependence of Atmospheric Absorption at the 4.1 mm Wavelength	180	321
Subclose Level of the Atmosphere	184	325
Density of Water in the Ocean	188	335
A. P. IVANOV, Principles and Methods of Conducting Hydrooptical Investigations	191	341
Short Communications		
B. M. GOLUBITSKIY AND N.1, MOSKALENKO, Spectral Transmission Functions in the H.O and CO. Bands	194	346
B. M. GOLUBITSKIY, N. I. MOSKALENKO, Measurement and Calculation of Spectral		,
Transmission in the N2O Bands in the Near-Infrared Region	204	360
A. V. KUZIKOVSKIY AND S.S. KHMELEVTSOV, Kinetics of the Evaporation of an Aqueous	206	363
Aerosol in an Optical Radiation Field	200 209	363 367
Ye. Ye. SEN KO AND B. G. STARIKOV, On the Evaluation of Thoron Exhalation	409	201

IZVESTIYA AKADEMIYE NAUK SSSR, ATMOSFERY I OKEANOLOGICHESKIY Vol 4, No 4, 1968

	Page	
	English	Russian
S. I. TEBEDEV AND G. N. SOLOVYEV, Some Results of the Numerical Integration of the		
Equation System Describing Processes in Mixed Layered Clouds	211	371-352
Kii, YU. MPLISK, Atmospheric Thermal Radiation in Partly Cloudy Co. Litions L. M. GRADUS, KH. YU. MIJLISK, AND YE. M. FEYGEL! SON, The Integral Function for Cloudy	218	363-396
Conditions. V. I. DIANOV-KLOKOV AND O. A. MATVEYEVA, Absorption Spectrum of Atmospheric Oxygen	226	397-412
in the 1.3-0.23 g Region and the Role of Short-Lived [O _{1]2} , [O ₂ -N ₂] Complexes V. M. VOLOSHCHUK AND L. M. LEVIN, Some Theoretical Aspects of Aerosol Aspiration	235	414-425
(Large Stokes Numbers)	241	426-443
I. M. BREKHOVSKIKH, On the Radiation of Infrasound into the Atmosphere by Ocean Waves S. V. DOBROKLONSKIY, S. F. MIRKQTAN, G.G. KHUNDZHUA, AND N.K. SHELKOVNIKOV,	250	444-450
Three-Dimensional Characteristics of Temperature Inhomogeneities in the Sea	254	451-459
SHORT REPORTS		
N.F. CORSHKOV, On Micropressure-Fluctuations in the Near-Earth Layer	259	460-462
B. M. GOLUBITSKIY, Selective-Radiation Absorption	262	463-465
Radiation in the 2.7-Micron Region	264	466-468
REVIEWS AND BIBLIOGRAPHY		
S. F. RODIONOV, YE. V. GNILEVSKIY, A Review of G. V. Rozenberg's Book 'Sumerki', Moscow, Fizmatgiz (English Translation: "Twilight", Plenum Press, New York		
15:(6)	266	469-470

IZVESTIYA AKADEMIYE NAUK SSSR, FIZIKA ZEMLI No 4, 1968

·	Page	
	English	Russian
ANONYMOUS. Boris Mikhaylovich Yanovskiy I.A. REZANOV AND NGUYEN HAK MAO, The Scismicity and the Seismotectonics of the	203	3-4
Territory of North Vietnam	204	5-24
A.M. KOCHETKOV. The Stress and Deformation State of a Developing Fold	217	25-32
NOVITSKIY, Polarization of Enstatite and Water in Shock Waves	221	33-38
Internal Inhomogeneities	225	39-47
I.K. KONDRAT'YEV, On the Theory of Inverse Digital Filtering of Wave Processes A.G. GAMBURTSEV, Attenuation and Dispersion of Seismic Body Waves in the Low	231	48-62
Velocity Zone	238	63-69
by Two Damped Gravimeters	243	70-76
V.N. STRAKHOV, The Solution of the Inverse Problem for Vertical Electrical Sounding	247	77-89
SCIENTIFIC REPORTS		
O.D. GOTSADZE, A Contribution to the Study of the Madatap Earthquake	251	85-95
on Period	25 9	96-99
Interferences A.V. TSIRUL'SKIY AND L.YA. OSPISHCHEVA, An Algorithm for the Reduction of Observed	262	100-104
Potential Field Values to a Common Level	266	105-111
Conducting Base in Deep Magnetotelluric Sounding G.Z. GURARIY M.A. PEVZNER AND V.M. TRUBIKHIN, Laboratory Studies of Natural	271	112-114
Chemical Magnetization	273	115-119

Page Orig. Trans.

Transactions of the All-Union Conference on Cosmic Ray Physics (Alma Ata, October 1966)

Analysis of emulsion data on nuclear interactions at energies above $10^{12}~{\rm eV}$ - M. Miesowicz & J. Gierula		
Investigation of the angular distribution of shower particles in	1398	1433
high energy interactions - M.K.Babaev, Yu.A. Eremenko, Yu.T. Luki	n,	
A.M. Machekhin & Zh.S. Takibaev	1409	1446
Angular distribution of secondary particles in showers - I.N.		
Erofeeva, L.A.Knizhnikova, L.G.Mishchenko, V.S.Murzin &		
L.I.Sarycheva	1412	1449
Average characteristics of multiple particle production processes		
at 100 to 1000 GeV - V.V.Guseva, N.A.Dobrotin, N.G.Zelevinskaya	,	
A.M. Lebedev, K.A. Kotel'nikov, V.M. Maksımenko, S.A. Slavatinskii,		
V.S. Puchkov & I.N. Fetisov	1414	1451
Zenith angle distribution of charged nuclear-active particles with		
average energies above 60 GeV - St.Kavlakov, B.Betev, E.Fenybes		
& G.Bozoki	1417	1454
Some results obtained with controlled nuclear emulsions with deter-		
mination of the occurrence times of the recorded events -		
N.L.Grigorov, S.I.Brikker, A.V.Podgurskaya, A.I.Savel'eva, V.A.Sobinyakov & V.Ya.Shestoperov		
Measurement of the fraction of the energy transferred to neutral	1420	1457
pions at energies of hundreds of GeV - A.E. Morozov, S.A.		
Slavatinskii & I.N. Fetisov		
Energy spectrum of nuclear-active particles at mountain altitudes -	1423	1460
Kh.P.Babayan, N.G.Boyadzhyan, N.L.Grigorov, E.A.Mamidzhanyan,		
V.A. Sobinyakov, Ch.A. Tret'yakova & V.Ya. Shes toperov	1.405	1 400
Investigation of high energy photons produced in nuclear interactions	1425	1462
- Kh.P.Babayan, N.A.Marutyan & S.V Mitoyan	1428	1 465
Studies of interactions of nucleons with energies of $\sim 10^{14}$ eV - A.V.	1420	1465
Apanasenko, L.T.Baradzei, E.A.Kanevskaya, V.V.Rykov, Yu.A.Smorod	in	
& M.V.Solov'ev	1431	1468
Passage of cosmic radiation through the atmosphere - I.N. Erofeeva &	7407	1400
V.S.Murzin	1434	1471
Contribution to the problem of asymmetric showers - I.L.Rozental' &		4214
L.I.Sarycheva	1437	1474
Concerning nuclear interactions of high-energy nucleons - N.M.		
Gerasimova	1440	1477
Concerning some contradictions in studies of high Gnergy cosmic ray		
particles - N.L.Grigorov & V.Ya.Shestoperov	1442	1480
On the isobar mechanism of high-energy pion production in cosmic		
rays - V.A.Shes.toperov & L.O.Chikova	1445	1483
The many-particle mechanism in interactions of cosmic rays with		
nuclei - I.Z.Artykov, V.S.Barashenkov & S.M.Eliseev	1448	1486
	10	1 5+nc

Available From The Columbia Technical Translations

IZVESTIYA AKADEMIYE NAUK SSSR, SERIYA FIZICHESKAYA Vol 31, No 9, 1967

Mark and the second sec		
Measurements with the Proton 1 and Proton 2 satellites of the cross		
sections for inelastic interaction of 1010 to 1012 eV protons		
with carbon nuclei - R.N. Basilova, N.L. Grigorov, V.E. Nesterov,		
I.D.Rapoport, I.A.Savenko & G.A.Skuridin Cross section for interaction of 10 ¹¹ eV nuclear-active particles	1450	1488
with lead nuclei - A S Petrubokan P & Parity and the second state of the second state		
with lead nuclei - A.S.Baigubekov, R.Z.Denikaev & Yu.T.Lukin Report on the operation of the Tskhra-Tskaro station installation	1453	1490
and preliminary data on the free path of 10^{11} to 10^{12} eV		
nuclear-active particles in carbon - E.L.Andronikashvili,		
D. I. Garibashvili, T.S. Gigalashvili, O.A. Gogitidze, D.B.		
Kakauridze, D.M. Kotlyarevskii, Z.Sh. Mandzhavidze, A.N.		
Mestvirishvili, N.N.Roinishvili, N.S.Rusishvili, A.A.Tserelov,		
A. I. Tsintsabadze, G. E. Chikovani, T. I. Sharabidze, E. N. Sherer,		
A.Yu.Shtaerman & G.Z.Shtemenetyan	1455	1493
Cross section for interaction of 5 x 10^{10} to 10^{12} eV nuclear-active		
particles in iron - D.I.Garibashvili & D.B.Kakauridze	1458	1495
Concerning the mass number dependence of the nuclear interaction		
cross section - D.T. Vardumyan, F.A. Marikyan & K.A. Mateyosyan	1460	1497
Cross section for inelastic interaction of 100 GeV neutrons with		
carbon nuclei - A.V.Alakoz, V.N.Bolotov, M.I.Devishev, L.F.		
Klimanova & A. P. Shmeleva	1463	1500
Cross section for interaction of 100 to 1000 GeV nuclear-active		
particles with iron nuclei - E.V.Denisov, V.G.Denisova, V.M. Kim, A.E.Morozov & S.A.Slavatinskii		
Investigation of nuclear cascade showers in iron - E.V.Denisov,	1466	1503
V.N.Kim, A.E.Morozov & S.A.Slavatinskii	1460	1505
Investigation of the cross sections for production of Λ^0 , K^0 ₁ and	1468	1505
Σ = particles in interactions of cosmic rays with carbon, copper,		
tin and lead nuclei - S.Zh.Apshev & I.I.Sakvarelidze	1470	1506
Cross sections for inelastic interaction of high energy nucleons.		
pions and kayons with different nuclei - L.V. Volkova	1472	1508
Some characteristics of 17 GeV/c inelastic pion-nucleon collisions -		
Z.V. Anzon, A.Kh. Vinitskii, I.S. Strel tsov, Zh.S. Takibaev		
I.Ya.Chasnikov & Ts.I.Shakhova	1474	1510
Dynamic characteristics of secondary particles from 20 GeV p-p inter	-	
actions - E.G.Boos, N.P.Pavlova, V.L.Pervushina, G.Ya.Rus'kina Zh.S.Takibaev		
Elastic scattering of particles and the structure of nucleons -	1477	1513
K.D. Tolstov	1400	3.53.6
Investigation of the p^+ and N^{*++} resonances in the π^+ $p \rightarrow \pi^+$ p	1480	1516
reaction for 2.34 GeV/c n+ mesons - I.M. Gramenitskii, Kh.M.		
Kanazirski, A.M.Moiseev, L.A.Tikhanova, A.B.Fenyuk, M.D.		
Shafranov, N.S. Angelov, A.I. Zlateva, P.P. Kerachev, V.N. Penev,		
Kh.M. Semerdzaiev, M.M. Khristov & A.I. Shklovskaya	1483	1519
On a method for analyzing super-high energy particle jets in velocit	y	
space transforms - E.G.Bubelev	1487	1523
Application of a new velocity space transform method for analysis of		
reactions to 17 and 24 GeV/c π N and pN interactions - V.A.		
Belyakov & E.G. Bubelev	1491	1528
A new method for analysis of nuclear interaction mechanisms - I.M. Dremin, G.B.Zhdanov, M.I.Tret yakova & M.M.Chernyavskii	.	
Security C. S. Andanov, M. I. IFEC YEKOVE & M. M. CDETDYSVSKII	1495	
	(0	ontd)

Available From The Columbia Technical Translations

IZVESTIYA AKADEMIYE NAUK SSSR, SERIYA FIZICHESKAYA Vol 31, No 9, 1967

Fast helium nuclei in nuclear disintegrations - Zh.S.Takibaev,	1/00	1535
N.S.Titova, E.V.Shalagina & G.R.Shtern A unitary statistical model of multiple particle production - V.S.	7430	1000
Barashenkov, G.M.Zinov'ev & V.M.Mal'tsev	1502	1539
Possibilities for investigation of particle interactions in the 10 ¹³ to 10 ¹⁵ eV energy range - S.I.Nikol'skii	1505	1542
A method for Letermining the altitude of muon production in ex- tensive air showers - A.Somogyi	1512	1549
High-energy nuclear-active particles in extensive air showers at		
sea level - E.A. Murzina New data on particle groups at 40 m.w.e. underground - S.N. Vernov,	1517	1554
Yu.A. Nechin, B.A. Khrenov & G.B. Khristiansen	1520	1558
Search for neutral particles at 40 m.w.e. underground - S.N. Vernov, B.A. Khrenov & G.B. Khristiansen	1523	1561
Fluctuations of the nuclear-active-particle energy fluxes in ex-	1023	1301
tensive air shower cores - O.V. Vedeneev, K.V. Mandritskaya,		
Yu.A.Nechin & G.B.Khristiansen	1526	1564
Fluctuations of different components of extensive air showers at		
sea level - A.T.Abrosimov, V.B.Atrashkevich, I.F.Belyaeva, G.V.Kulikov, K.V.Mandritskaya, V.I.Solov'eva, B.A.Khrenov &		
G.V.Kulikov, K.V.Mandritskaya, V.I.Solov eva, B.A.Kurenov & G.B.Khristiansen	1528	1566
Fluctuations of the Cerenkov flash accompanying extensive air		
showers - N.M.Nesterova	1530	1568
Investigation of electron-photon cascades in iron in the 1012 eV		
energy region - V.V.Borog, K.G.Kirillov-Ugryumov, A.A.		
Petrukhin & V.V.Shestakov	1533	1571
Investigation of electromagnetic shower development in lead - Yu.A. Emel'yanov, Yu.T.Lukin, K.A.Amanov & K.S.Kharitonova	1536	1574
On the electron excess in electromagnetic cascade showers -	2000	
V.V.Guzhavin, I.P.Ivanenko & A.E.Levitin	1538	1576
Angular distribution of electrons at different depths in cascade		
showers - V.V.Guzhavin, I.P.Ivanenko, L.N.Potapova & B.E.		
Samosudov	1542	1580
Equilibrium angular distribution functions for cascade electrons	1545	1 502
in iron and lead - I.P. Ivanenko & B.E. Samosudov Particle number fluctuations in three-dimensional electromagnetic	1545	1583
shower theory - E.V. Gedalin	1548	1586
Determination of the functions for interaction of cascade particles		
with matter by the inverse problem method - V.A.Astraf'ev &		
N.M. Komlyagina	1551	1588
Investigation of the penetrating component of high energy cosmic		
radiation at 20 and 40 m.w.e. underground - S.N. Vernov, O.V.		
Vedeneev, Yu.A. Nechin, B.A. Khrenov, Yu.A. Fomin, A.A. Silaev &		
G.B. Khristiansen	1955	1592
Investigation of the energy and angular distribution of high- energy muons - R.E. Kazarov, Yu.D. Kotov, R.V. Kuridze &		
V.M. Logunov	1558	1595
Investigation of the penetrating component of the cosmic rays at		
130 m.w.e V.A.Aglamazov, L.D.Gedevanishvili, R.E.Kazarov,		
D.Sh.Keshelashvili, Yu.D.Kotov, R.V.Kuridze, V.M.Logunov &		
I.I.Sakvarelidze	1561	1597
	11	Contd)
A AN N Mary Mary Marked on Mary Manual and American	''	

IZVESTIYA AKADEMIYE NAUK SSSR, SERIYA FIZICHESKAYA Vol 31, No 9, 1967

Spark calorimeter study of muons at 200 m.w.e. - M.F.Bibilashvili,
T.T.Barnaveli, G.A.Grubelashvili, N.A.Muradova & I.V.
Khaldeeva

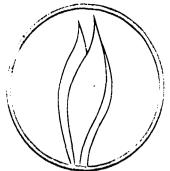
Bremsstrahlung in the collision of a muon with an electron at rest V.M.Galitskii & S.R.Kel'ner

On large angle scattering of cosmic ray muons - E.V.Bugaev

1568 1604

Available From The Columbia Technical Translations

Translated in 1968 by Columbia Technical Translations 5 Vermont Ave., White Plains, N.Y. 10606



Soviet Physics Journal

The Faraday Press cover-to-cover translation of Izvestiya VUZ. Fizika

Contents

Number 5 · September - October 1965

		Russian	English page
Editorial Board	Calculation of Some Characteristics of Substituted		
Izvestiya VUZ-Fizika	Benzenes, II, A Study of Nitrobenzene-Type		
a publication of the	Molecules by the MO LCAO Method.		
Higher Education Institutes	O. A. Ponomarev and A. G. Turovets	5	1
USSR	A Simple Semi-Empirical Procedure for Determining the Parameters in the MO LCAO Method.		
	O. A. Ponomarev	8	4
K V Savitskii, Editor-in-Gnief	Approximate Theory of the Red Shift in Conformally		
V E Zuev.	Two-Dimensional Space. Ya. I. Pugachev	15	8
Associate Editor	Intermolecular Interaction in Solutions of Nitriles and		
M. A. Bolishanina	the Evaluation of the Binding Energy of Complexes.		
V S Vavilov	I. S. Pominov and A. Z. Gadzhiev	19	11
A.A. Varablev P. V. Galubkov	On the Bond Forces in Metals. II. V. A. Zhdanov, V. F.		
E. F. Gross	Konusov, and A. N. Luzin	25	15
B. S. Dahe epov	Infrared Absorption Spectra of Polyarylenealkyl Com-		
V. A. Zhoanov	pounds. Polychlorophenyleneethyl. Yu. A. Nuzhdina		00
V. I, Iveronova	and E. F. Kozyreva	33	20
V. N. Kessenikh i A. Parfianovich	The Effect of Grain Size on the Deformation Resistance		
V.A. Presov	of Nickel, V. V. Karavaeva and V. F.	10	0.7
N.A. Prilezhaeva	Sukhovarov	40	25
A. L. Rvachev	Impurity Diffusion into Semiconductors.	10	
K. V. Savitskii A. B. Sapoznnikov	Yu. B. Bolkhovityanov	49	32
A A Sokolov	Moments of Inertia of Highly-Deformed Nuclei.	55	36
K V Shanmova	V. I. Alkhimov	33	30
	Pause Constants of Tetrohodus! Hudvides		
Faraday Advisory Editors	D. S. Koval'chuk and V. P. Morozov	62	40
R C Gass	Theory of Thermal Conductivity in Disordered Solids.	U.	M O
The City University, London	S. A. Smolyanskii	67	44
B.R. Pamplin Bath University of Technology	The Effect of Surface Inhibitors on the Relaxation Time	01	77
P Sugnet	of Oriented Atoms, N. G. Precbrazhenskii and		
Centre National de la Recherche Scientifique Paris	S. V. Senina	73	46
we willings a sine	Available From The Faraday Press, Inc.	(continu	ied)

Single Issue: \$35

Annual Subscription: \$125

(2) 1968 by The Faraday Press, Inc.

All rights reserved. This publication or parts thereof may not be reproduced in any form without permission of the publisher.

The Furaday Press, Inc.

EN EIFTH AVENUE, NEW YORK, N. Y. 10011

No 5, September-October 1965

	bodo untriou	bulle Evilli
Transient Process in the Instantaneous Switching of a Semiconductor Diode from the Forward to the Neutral Direction. V. I. Gaman and V. M. Kalygina	77	51
Proton Calculated for the Case of Nonlocal Potential. B. B. Dotsenko and		
V. M. Salasyuk	80	53
The Temperature Field in a Crystal During Heating by Radiation.		
V. V. Salomatov	86	57
The Effect of Measurement Temperature on the Thermo-emf and Electrical Continuous Some Homogeneously Graphitized Carbonaceous Materials.		
V. N. Plechev and S. V. Shulepov	90	59
The Temperature Dependence of Infrared Spectra. A. K. Petrov and A. V.		
Sechkarev	94	62
Lukantsever	97	65
Structure of Rectifiers Based on Titanium Dioxide. S. A. Akulinin and M. I.		
Shchevelev	102	69
Electronical Discharge in Plastics in a Homogeneous Field. M. N. Lisetskaya	108	73
Change in Domain Structure of a Cobalt Crystal in a Magnetic Field.		
G. S. Kandaurova and G. L. Mochalova	111	75
On the Concept of "Motion Mass." N. N. Malov	117	79
Polarization Properties of Boson Radiation, V. G. Bagrov	121	82
Nonlinear Theory of the Excitation of Spin Waves in Ferrites by a Longitudinal Ultrahigh-Frequency Magnetic Field, G. A. Petrakovskii and V. N.		
Berzhanskii	128	86
Calculation of the Coefficients of the Potential Function of Hydrides of the Elements		
of the Fifth Group. V. N. Khlebnikova and V. P. Morozov	134	90
Mass of the Fundamental Fermion and Degeneracy of the Vacuum. A. I. Naumov The Mechanism of Disintegration of Color Centers and the Nonstationary Recombination Luminescence of NaCl-Ag Phosphor Crystal. I. V. P. Chernenko,	137	93
Yu. L. Lukantsever, and F. N. Zaitov	145	98
Paramagnetic Relaxation in Single Crystals of Salts of the Ions Mn ⁺⁺ , Fe ⁺⁺⁺ , and Cu ⁺⁺ as a Function of Their Orientation in a Parallel Constant Magnetic Field	-1.5	*,-
at Room Temperature, T. I. Volokhova	153	103
Rational Table of Values of the Radioactive Decay Function, V. Ya. Gavrik	158	106
On the Magnetocrystalline Anisotropy of Nickel-Iron Ferrites. A. I. Drokin, N. I.		
Sudakov, S. Sh. Gendelev, E. M. Kondrat'ev, and L. I. Ryabinkina	162	109
Analysis of the Planar Transistor at Medium and High Injection Levels.		
I. N. Vazhenin.	171	115
Experimental Study of Broadening of X-ray Interference Lines Due to Secondary		
Extinction, O. M. Kozlov and Yu. S. Terminasov,	181	121

Available From The Faraday Press, Inc.

KRISTALLOGRAFIYA EDITORIAL BOARD EDITORIAL BOARD

N. V. Belov
G. B. Bokii
A. A. Chernov
V. L. Indenbom
A. I. Kitaiscrodskii
Z. G. Finsker
I. I. Shafranovskii
A. V. Shubnikov
(Editor)
Institute of Crystallography
Academy of Sciences of the USSR,
Mascow
L. A. Shuvalov
B. K. Vainshtein
G. S. Zhdanov
(Associate Editor)
I. S. Zheludev
(Secretary)

Soviet Physics **CRYSTALLOGRAPHY**

A Translation of "Kristallografiya"

(Russian Original Vol. 13, No. 2, pp. 209-376, March-April, 1968)

Vol. 13, No. 2, pp. 165-310

September-October, 1968

CONTENTS

CONTENTS			
		PAGE	RUSS. PAGE
Four-Dimensional Bravais Lattices. A. M. Zamorzaev and B. V. Tsekinovskii.	(T)	165	211
Generalized Equations of the Bijvoet Type. A. V. Kolpakov, R. N. Kuz'min,			
and G. S. Zhdanov	(T)	169	215
Scattering of Slow Electrons by a Static Gaussian Atomic Potential.			
V. F. Dvoryankin and A. Yu. Mityagin	(T)	173	221
Lattice Energy of Crystalline Benzene in the Atom-Atom Approximation.			
A. I. Kitaigorodskii, K. V. Mirskaya, and A. B. Tovbis	(T/E)	176	225
Variation of Noncubic Cell Constant Accuracy with Reflection Indices.			
A. I. Zaslavskii	(T)	181	232
Angular Dependence of X-Ray Attenuation for Samples of Cylindrical			
and Spherical Shapes in a Very Narrow Beam. D. M. Mazo	(T)	185	237
High-Temperature X-Ray Investigation of Lithium Tantalate. I. G. Ismailzade,			
V. I. Nesterenko, and A. A. Bairamov	(E)	188	241
X-Ray-Diffraction Study of the Structure of Berbankite (Na, Ca)3(Ca, Sr, BaTR)3.			
(Co ₃) ₅ . A. A. Voronkov and N. G. Shumyatskaya	(E)	192	246
Structure of Chelate Compounds with Me-s Bonds. 5. Crystal and Molecular			
Structure of Cadmium Diethyldithiocarbamate. E. A. Shugam	4		
and V. M. Agre	(E)	197	253
Electron-Diffraction Study of the Structure of PbBi ₂ Se ₄ . K. A. Agaev	/ =>		
and S. A. Semiletov	(E)	201	258
Neutron-Diffraction Study of the Structure of Hydrated Lithium Salts.	4		
II. LiClO ₄ · 3H ₂ O. I. D. Datt, N. V. Rannev, and R. P. Ozerov	(E)	204	261
Polarization Diagrams for the Fluorescence of Single Crystals of Salicylic Acid			
and Salicylates. V. N. Varfolomeeva and N. D. Zhevandrov	(E/T)	209	267
Polarization of Light Waves in Optically Active Crystals. V. A. Shamburov,			
A. F. Konstantinova, and B. N. Grechushnikov	(T)	212	273
Polarization Reversal in Barium Titanate Single Crystals Subject to Two			
Frequencies Simultaneously. É. S. Popov and S. L. Rapoport	(E)	216	278
Time Variation in the Domain Width in Triglycine Sulfate Crystals. F. Moravets	4		
and V. P. Konstantinova	(E)	221	284
Pretransition Phenomena and Electrooptical Properties of Liquid Crystals.		207	-00
V. N. Tsvetkov and E. I. Ryumtsev	(E/T)	225	290
		(Contd)

Available From The American Institute of Physics, Inc. Vol 13, No 2, Sept-Oct 1968

Vol 13, No 2, March-April 1968

o,,			
		PAGE	RUSS. PAGE
Structure of Liquid-Crustal Dans, anaryumisele in Constant Pleatric Biolds		1	
Structure of Liquid-Crystal Para-azoxyanisole in Constant Electric Fields. E. A. Kosterin and I. G. Chistyakov	(12)	000	oor
Quantitative Estimates of the Substructure of Single Crystals Using	(E)	229	295
High-Resolution Laue Patterns. B. M. Rovinskii and E. P. Kostyukova.	(T/E)	236	200
A Three-Dimensional Modulated Structure in an Ageing Fe-Be Alloy.	(1/ E)	230	302
M. V. Dzhibuti and Yu. D. Tyapkin	(E)	240	307
Line Strengths in X-Ray Patterns of Graphite Structures. A. V. Kurdyumov	(15)	240	307
and A. N. Pilyankevich	(T/E)	245	311
Electron-Diffraction Study of the Palladium-Antimony System in Thin	(2/ 2/	0.0	011
Films. T. P. Karpova, R. M. Imamov, and S. A. Semiletov	(E)	249	316
	(2)		
BRIEF COMMUNICATIONS			
Calculation of the Strength of Two-Phonon X-Ray Scattering in Diatomic	-		
Crystals. V. I. Iveronova, A. P. Zvyagina, and Parangtopo	(T)	253	322
Correlation between the Optical Spectra of Crystals Belonging			
to the Corundum Group and Their Structures. D. T. Sviridov	erc / 12)	06.5	200
and V. V. Ilyukhin	(T/E)	255	323
with an Arbitrary Orientation of the Crystal. B. B. Zvyagin	/T *\	258	325
Effect of Break-of-Series in Two-Line Fourier Analysis. A. S. Kagan,	(T)	200	34.
V. M. Snovidov, A. N. Ivanov, and Ya. S. Umanskii	(T)	260	326
Electron-Diffraction Study of Ammonium Iodide. V. N. Kolomiichuk	(1)	200	020
and G. S. Yur'ev.	(E)	262	328
A Nuclear Quadrupole Resonance Investigation of As ₂ Se ₃ . I. N. Pen'kov	ι_,		
and I. A. Safin	(E)	264	330
A Five-Component Fluoride-A New Laser Material. A. A. Kaminskii,	•		
V. V. Osiko, and Yu. K. Voron'ko	(E)	2 u	332
Microscopic Properties of Calcium Vanadates CaV2O6, Ca2V2O7, and Ca3V2O8.			
V. A. Makarov, A. A. Fotiev, and L. N. Serebryakova	(E)	268	333
Refractive Index and Electrooptic Effect of Doped KCl Crystals.			
M. M. Nekrasov, B. M. Belyakov, and M. K. Rodionov	(E)	270	335
Contribution of the Quadratic Effect to the Electrooptic Behavior of ADP.			
A. S. Vasilevskaya and A. S. Sonin	(E/T)	272	337
A New Phase Transition in Ferroelectric SbSI. V. N. Nosov	(E)	273	338
Self-thermostatting of KDP and DKDJ Single Crystals. B. A. Strukov.			
V. Min, and A. S. Sonin	(E)	274	J 39
Natural Unipolarity in Barium Titanate Crystals Grown by Remeika's	4501		840
Method. V. G. Gavrilyachenko, V. P. Dudkevich, and E. G. Fesenko The Magnetic Anisotropy of Neodymium Orthoferrite. K. P. Belov,	(E)	277	342
A. M. Kadomtseva, S. S. Kvitka, T. L. Ovchinnikova,			
and V. A. Timofeeva.	(E)	279	344
Phase Transitions in Liquid Crystals of Polymesomorphic Type.	\2)	210	-
A. P. Kapustin and N. T. Bykova	Œ)	387	345
Domains in Liquid Crystals of Smectic Type. L. K. Vistin'	Ψ,		
and A. P. Kapustin	(E)	284	349
Scattering of X Rays in Liquid Gallium Antimonide. A. S. Lashko	,		- 40
and Yu. G. Poltavtsev	(E)	287	352
Paramagnetic Centers in Apatite. M. Ya. Shcherbakova, L. G. Gilinekaya,	• •		-
and A. A. Godovikov	(E)	289	353
Study of the Deformed State of PbS by Harmonic Analysis of the Shapes			
of the Interference Lines. I. V. Smushkov and V. F. Tkachenko	(T / T)	291	356
		(0	onta)
		•	

Available From The American Institute of Physics, Inc. Vol 13, No 2, Sept-Oct 1968

Vol 13, No 2, March-April 1968

			RUSS,
		PAGE	PAGE
A Study of the Homogeneity of Crystals of Synthetic Quartz. I. N. Guseva			
and V. S. Doladugina	(E)	295	360
Trapping of Solution by a Growing Crystal. A. V. Belyustin and S. S. Fridman.	(E)	298	363
Electron Diffraction and Electron-Microscope Studies of Silicon Dioxide Films.			
É. G. Azhazha, Yu. Ts. Vol, and I. G. Ksendzatskii	Œ)	301	366
Single Crystal Germanium Films on Gallium Arsenide Produced by Thermal			
Evaporation in Vacuum. A. P. Klimenko, V. P. Klochkov, N. N. Soldatenko,			
N. M. Torchun, and Yu. A. Tkhorik	Œ)	303	367
Epitaxial Growth of Al, Ag, and Cu on NaCl Crystals. V. S. Postnikov,			
V. M. Ievlev, and I. V. Zolotukhin	(E)	306	371
80th Birthday of P. P. Ewald. N. V. Belov		308	373

Available From The American Institute of Physics, Inc. Vol 13, No 2, Sept-Oct 1968

OGNEUPORY EDITORIAL BOARD

A. A. Korsakov V. V. Lapin G. T. Bardagov A. S. Berezhnoi P. P. Budnikov .. Levitanskii I. F. Chikurov P. S. Mamykin M. P. Nazarov A. P. Panarin L. V. Drazhnikova D. I. Gavrish Editor) Ya. A. Gol'din D. N. Poluboyarinov M. Sh. Rutman I. S. Kainarskii I. A. Savkevich A. K. Karklit V. N. Shehukina I. P. Kirsanov K. K. Strelov

B. N. Voevodin

A translation of OGNEUPORY

Published in cooperation with

the Board of Governors of Acta Matallurgica.

CONSULTANTS BUREAU, A DIVISION OF PLENUM PUBLISHING CORPORATION, 227 West 17th Street, New York, N. Y. 10011

Numbers 11-12

November-December, 1967

CONTENTS

	Engl.	/Russ.
NUMBER 11, 1967	•	
Steel Production Needs Resistant Refractories	655	1
REFRACTORY CONCERNS HONOR 50 YEARS OF SOVIET RULE		
Chasov Yar Refractories Combine - L. N. Reznikov	658	4
Bogdanovich Refractories Plant - D. I. Yuzvuk	662	7
Veliko-Anadol'sk Firebrick Factory - P. G. Belukha	664	10
Domodedov Refractories Plant - I. A. Suvorov		12
TECHNICAL PROGRESS IN THE REFRACTORIES INDUSTRY		
Scientific Problems in Boosting Refractories Quality - A. S. Berezhnoi	668	13
Highly Refractory Ceramics from Pure Oxides - D. N. Poluboyarinov	673	19
Developing the Production of Refractories for the Erection and Repair of Coke Ovens		
-I, S. Kainarskii	679	25
Contribution of the All-Union Institute of Refractories to the Development of Testing		
Methods - M. N. Bluvshtein	683	29
Development of Petrography in the Soviet Union - L. I. Karyakin	688	35
Developments and Improvements in Turnaces for Firing Refractories - S. A. Shiryaev		
and B. I. Oborin	692	38
PRODUCTION		
Effect of Silicone Additives on Grinding and Sintering Rates of High Alumina Briquette		
Body - G. V. Kukolev, I. Ya. Piven', V. M. Martynova, D. B. Min'kov,		
T. V. Malikova, A. S. Yudina, and B. V. Parkhaev.	696	41
Production of Zircon Batcher-Inserts for Continuous Steel Casting Plant		
-N. P. Feshchenko, T. A. Reingardt, S. S. Erit'syan, N.M. Frolovskii,	201	
A. A. Terteryan, and E. B. Neledkina	4	46 Cantd \
Available From Consultants Bureau	(Contd)

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau, a division of Plenum Publishing Corporation, 227 West 17th Street, New York, N. Y. 10011, U.S.A.

No 11-12, Nov-Dec 1967

Contents

(continued)

	Eng	gl./Russ.
MECHANIZATION AND AUTOMATION OF PRODUCTION Electrolytic Boronizing of Press Plates - N. A. Shchetkina, T. N. Damaskina, M. L. Prozorova, T. I. Voronchikhina, L. Kh. Roitman, B. I. Ostrovskii,		
and G. A. Koshcheev	703	48
RAW MATERIALS Filling Rotary Excavator Buckets — G. E. Zaichenko and S. V. Eroshkin	705	50
REFRACTORIES IN SERVICE Service of Periclase-Spinel Products Made from Magnesite Powder with Additions of Titanomagnetite Concentrate - V. A. Bron, M. I. Diesperova, G. S. Krotova, N. F. Bugnev, L. Ya. Osipova, K.V. Simonov, E. I. V'yunnikova, G. E. Ovchinnikov, and K. S. Nazarov.	710	55
EXCHANGE OF EXPERIENCE		
Portable Equipment for Testing Electrical Devices - V. V. Zaitsev	715	59
FROM FOREIGN SCIENCE AND TECHNOLOGY Dinas Chromite for the Covers of Soaking Pits in Rolling Shops	717	61
No. 9, 1966, p. 1736)	719	cover finside rear 62]
NUMBER 12, 1967		
Leaders in the Socialist Competitions	723	1
PRODUCTION Concrete Blocks for Heat Treatment Furnaces - D. A. Startsev	724	2
V. I. Antropov	728	6
HEAT TECHNOLOGY Thermal Shock Resistance of Refractories -L. A. Plotnikov	732	10
	104	••
MECHANIZATION AND AUTOMATION OF PRODUCTION A Small Double-Staged Dust Extractor - V. I. Abumov and S. I. Gaivoronskii Dust Extraction in Loading Devices for Pneumatic Transport - S. A. Zubarev and	737	14
V. D. Mikhailovskii	739	16
RAW MATERIALS Flotation Beneficiation of Semibratsk Magnesite - N. I. Baranovskii	740	17
REFRACTORIES IN SERVICE Service of Zircon and Alumina Batcher Inserts for Continuous Steel Casting -N. M. Frolovskii, M. G. Chigrinov, I. K. Bakhaev, V. V. Lobanov, A. A. Spesivtsev, A. Ya. Glazkov, and T. A. Reingardt	742	20
RESEARCH		
Firing Silicon Carbide Refractories in a Nitrogen Atmosphere - N. I. Voronin, N. I. Krasotkina, and M. S. Fraifel'd	745	
	•	(Contd)
Available From Consultants Bureau		

300009001 30 11-12, 30v-0ec 1967

CONTINUES

leastin-ad

	Engl.	./Russ.
Effect of the Nature of Aluminous Additives on Mineral Formation and Properites of Aluminous Acate Concretes - A. A. Pirogov, A. S. Yutina, and		
M. E. Drizhoruk. The CaO - SrO - A. O ₃ - ZrO ₂ System and Its Importance for Refractories	752	30
Technology - R. A. Tarnopol'skaya and N. V. Gul'ko	760	38
Some Properties of Silicon Monoxide - K. K. Kolobova	764	42
EXCHANGE OF EXPERIENCE		
Open Design Office at the Chasov Yar Refractories Combine - L. T. Shcherbina	766	43
ECONOMICS		
Scientific Work Organization at the Pervourals Silica Factory - I. T. Gubko	767	44
Introduction of Scientific Work Organization —S. B. Vinokur and D. A. Korotov	769	47
SHORT REPORTS		
In the Refractories Section of NTS MChM, USSR - E. B. Nefedkina	771	49
FROM FOREIGN SCIENCE AND TECHNOLOGY		
Refractories for Oxygen Converters — Ya. A. Orlovskii	772	50
BOOK REVIEWS		
A. P. Kudrina and G. F. Gul'ev - Refractories for Oxygen Converters - Reviewed by		
A. A. Pirogov	778	56
INDEX	=00	
Author Index, Numbers 1-12, 1967	783	
Table of Contents, Numbers 1-12, 1967	787	

NOTE

The Table of Contents lists all material that appeared in the original Russian journal. Items originally published in English or generally available in the West are not included in the translation and are shown in brackets. Whenever possible, the English-language source containing the omitted items is given.

The Russian press dates (podpisano k pechati) of the first and second issues covered in this issue of the translation were, respectively, 10/13/67 and 11/23/67. Publication of the material translated in this issue is therefore known to have occurred not prior to the earlier of these dates, but must be assumed to have taken place in two parts, the second being published shortly after the later of the dates.

Available From Consultants Bureau

Vol 24, No 4, 1968

(Numbers in parentheses are original Russian page numbers. These Russian page numbers are also quoted at the head of each paper.)

N. A. Ramadze, Z. D. Chkuaseli, Ya. A. Butov, Yu. S. Gvaladze, and G. V. Sholin		(616) Contd
Production of Population Inversion in Doubly Ionized Oxygen by Optical Pumping with Resonance Radiation of Ionized Helium	323	(614)
The 100 cm ⁻¹ Absorption Band of p-Azoxyphenetole in the Solid, Liquid-Crystal, and Liquid States	322	(613)
SHORT COMMUNICATIONS		
Study of the Fluorescence Spectra of Mixed Organic Single Crystals at 20°K	316	(602) (608)
Opticoacoustic Receiver of Centimeter Electromagnetic Waves and Its Use for Quantitative Gas Analysis		, ,
Afterglow Lifetimes of Aqueous Solutions of Europium and Terbium Salts	313	(596)
Study of Relaxation Processes in the CaF ₂ -Gd ^{3*} System	302 308	(576) (586)
Splitting of the Terms of Nd's and Ce's in the LaF, Crystal	301	(573)
On the Absorption Spectra of Impurity Centers with Close-Lying Levels Mixed by Vibrations	297	(565)
Hydrogen Bonding in Cumene Hydroperoxide Solutions	294	(560)
Temperature Dependence of the Absorption and Dispersion of Certain Organic Liquids in the Region of Strong Infrared Absorption Bands Yu. E. Zabiyakin and N. G. Bakhshiev	290	(552)
Theoretical and Experimental Study of the Absolute Intensities and Depolarizations of the Raman Lines of Polyatomic Molecules. V. Acetone and Acetone-d ₆ V. I. Vakhlyueva, S. M. Kats, and L. M. Sverdlov	287	(547)
Absorption Spectra of Certain Monohalobenzenes in the Region of Valence Vibrations of C- 2 Bonds	284	(540)
XY, Type I. I. Ippolitov and Yu. S. Makushkin Correlation between Vibrational Band Shifts and the Acidity of Hydrcxyl-Containing Substances in the Case of Their Interaction with Certain Organic Compounds L. Singurel and L. A. Ignateva	?77 281	(530) (535)
and its Application to a Diatomic Molecule M. R. Aliev and V. T. Aleksanyan On the Computation of Intensities of Vibrational-Rotational Trans tions for Nonlinear Molecules of the	273	(520)
red Spectra	270	(513)
Treatment of Symmetry in the Computation of Intensities in the Vibrational Spectra of Molecules. Infra-	266	(506)
Experimental Determination of the Matrix Elements of the Electronic Transition Dipole Moment in the First Negative Band System of the N ₂ Molecule Using an Arc Filament in an Axial-Vortex Air Flow.	262	(498)
On the Theory of the Polarizability of Molecules		
Determination of Coupling fficients for the np ⁵ n's and np ⁵ n'p Configurations from Experimental Data R. I. Semenov and B. A. Strugach	258	(467)
Local States and Lag Effects	253	(477)

Available From The Optical Society of America

OPTIKA I SPEKTROSKOPIYA Vol 24, No 4, 1968

On the Triplet-Triplet Absorption of Photochromic Spiropyranes		
T. A. Shakhverdov and A. V. Shablya	326	(619
On the Duration of a Single Pulse in a Spherical Laser Resonator with a Passive Shutter E. G. Berzing, S. V. Lopina, Yu. V. Naboikin, I. A. Rom-Krichevskaya, Yu. A. Tiunov, and V. A. Goloyadov	327	(621
On the Nonlinear Transmission of Light from a Ruby Laser by Chlorophyll Solutions	00.	(001
O. L. Lebedev, Yu. M. Gryaznov, and A. A. Chastov	328	(022
Vibrational Spectrum of Methyldifluoroamine	000	
V. A. Shlyapochnikov, V. I. Yakutin, and S. S. Dubov Effect of a Plasma Inhomogeneity on the Shape and on the Contour Parameters of Spectral Lines	330	(624
Effect of a Plasma minomogeneity on the Shape and on the Contour Parameters of spectral Effect. G. G. Ilin, V. I. Protasevich, and I. S. Fishman	330	(624)
Circular Holography of Three-Dimensional Objects		,
Sh. D. Kakichashvili, A. I. Kovaleva, and V. A. Rukhadze	333	(627)
The Microwave Spectrum and Structure of the Ethylmercaptan Molecule	334	(629)
Study of the Four-Electrode Kerr Cell	554	(029)
B. V. Gisin and O. K. Sklyarov	335	(631)
On the Connection between the Spectra of Spontaneous and Induced Raman Scattering		
(f-f) Absorption Spectra of Tu ^{2*} , Ho ^{2*} , and Nd ^{2*} Ions in CaF ₂	337	(634)
(1-1) Absorption Spectra of Tu ⁻ , Ho ⁻ , and Nd ⁻ Ions in Car ₂	338	(635)
Absorption Spectra of Excited LiNbO ₃ Single Crystals	•••	(000)
E. G. Valyashko, L. N. Rashkovich, and V. A. Timoshenkov	339	(637)
Normal Vibrations of the Thiosulfate S ₂ O ₃ ²⁻ Ion	240	
Yu. Ya. Kharitonov, N. A. Knyazeva, and L. V. Goeva Calculation of the Intensity Distribution in the Electronic Vibrational Bands of the ${}^{1}A_{1g} \Rightarrow {}^{1}B_{2u}$ Transition	340	(639)
of Benzene	342	(641)
Theoretical and Experimental Study of the Absolute Intensities and Depolarizations of the Raman Lines of		•
Polyatomic Molecules, VI. Acetaldehyde and Acetaldehyde-di	0.10	
V. I. Vakhlyueva, S. M. Kats, and L. M. Sverdlov	343	(643)
Photodissociation of Excitons. Continuum Model	345~	· •646)
On the Emission of High Pressure Xenon Lamps in the Far ir Region of the Spectrum		• • • • • • • • • • • • • • • • • • • •
O. K. Filippov and E. V. Ukhanov	347	(641)
Electrooptical Effect in Liquid Crystals	9.10	(650)
Determination of the Gas Temperature of a Discharge from Lines having Hyperfine Structure	340	(0.30)
A. G. Zhiglinskii and T. N. Khlopina	350	(652)
ANNIVERSARIES AND DATES		
Vladimir Konstantinovich Prokofev (on his 70th birthday)	351	(655)

Available From The Optical Society of America

OPTIKA I SPEKTROSKOPIYA Vol 24, No 5, 1968

(Numbers in parentneses are original Russian page numbers. These Russian page numbers are also quoted at the head of each paper.)

Calculation of Optical Polarizability of the Hydrogen Atom by Means of New Variational Methods		
Energy of the Excited States of Helium	353	(857)
A. V. Ivanova, U. 1. Safronova, and V. N. Kharitonova Optical and Electrical Characteristics of the Positive Column of the Discharge in Mixture of Mercury and	355	(660)
laert Gases. Yu. M. Kagan and B. Kasmaliev Contracted High Frequency Discharges in Argon	356	(663)
S. D. Wagner, Yu. M. Kagan, and G. Yu. Khrustalyov Effect of Inclustic Atomic Collisions on Relaxation Processes in a Low Temperature Plasma	360	(671)
L. P. Presnayakov, A. D. Ulantsev, and L. A. Shelepin Diffusion Theory of the Passage of Light Through Scattering Media	363	(677)
The Role of the Proper Volume of Molecules in the Collision Theory of Spectral Line Broadening in Gases	365	(680)
A. J. Burshtein and Yu. 1. Naberukhin On the Two Aspects of the Problem of the Effect of Intermolecular Interactions on Molecular Spectra	367	(683)
Calculation of the Vibrational-Rotational Energy of Molecules. II. The Selection of S Functions for Poly-	371	(691)
atomic Molecules	373	(695)
I. I. Shabalin and E. A. Kiva On the Relation Between the Oscillations of Liquid Molecules and the Distribution of the Continuous Spec-	377	(703)
trum of the Rayleigh Line	380	(709)
atomic Molecules M. S. Mikhelashvili and I. M. Rozman	383	(714)
Absorption Spectra of Anthracene in Solution at 77°K	385	(718)
Absorption and Fluorescence Spectra of Stilbene, Diphenylstilbene, and Styrylstilbene E. A. Andreeshchev, V. S. Viktorova, S. F. Kilin, Yu. P. Kushakevich, and I. M. Rozman	387	(732)
The Effect of Concentration on the Absorption Spectra of Frozen n-Paraffin Solutions of Diphenylene Oxide	389	(727)
citation A. G. Goryushko, Yu. V. Naboikin, L. A. Ogurtsova, and A. P. Podgornii Optical Properties of Bil, Single Crystals Near the Long-Wavelength Edge of the Fundamental Absorption	392	(723)
Absorption of Light in Thin Granular Silver Films	396	(740)
The Ionic Temperature Quenching Mechanism of Silver Chloride Luminescence. II. The Decay Law of the Scintillations and Afterglow for an Ionic Mechanism of Temperature Quenching of Luminescence	398	(744)
Some Problems of Spiking of Solid State Lasers	402	(751)
	405	(7,56)
Diffraction Effects in Confocal and Semiconfocal Optical Resonators	409	(766)
Power Saturation of a He-Ne Gas Laser at λ = 6328 Å	416	(779)
Analysis of the Electric Field Controlling the Longitudinal Electrooptical Effect in Highly Penetrable Anisotropic Crystals with Strip Electrodes	420	(786)
Selective Photoreceivers for the 15-90 nm Spectral Region	424	(795)
Total-Internal-Reflection Filter, Calculation of Transient Processes		(799) Contd)
Available From The Ontion: Goodston	'	~uuu j

Vol 24, No 5, 1968

SHORT COMMUNICATIONS		
Interaction of Laser Beams and the Failure of the Fresnel Laws		
Measurement of Electronic Temperatures by the Ratio of Helium Line Intensities	429	(805)
Theoretical and Experimental Study of the Absolute Intensities and Depolarizations of the Raman Lines of Polyatomic Molecules. VII. Acetyl Chloride and Acetyl Chloride-d ₃	430	(806)
Neodymium Glass Laser with Circularly Polarized Stationary Waves in the Resonator	431	(808)
V. A. Gridin, G. V. Krivoshchekov, and K. G. Folin	433	(811)
Emission Spectrum of the SiBr* Molecule	434	(812)
Estimate of the Angular Radiation Distribution from a Laser with Inhomogeneities in a Plane-Mirror Resonator	435	(815)
Infrared Spectra and Intermolecular Interactions in the Phenol-Quinone System		
The Emission of Xenon Pulse Lamps Fed with Double Current Pulses	436	(816)
A Displacement of the Double Resonance Signal in Alkali Metals when the RF Field Strength is Changed	437	(818)
Dependence of the Electronic Transition Moment R, upon the Internuclear Spacing r for the Meinel	439	(820)
Band System of the N' Ion V. T. Koppe, A. G. Koval, V. V. Gritsyna, and Ya. M. Fogel Laser Action of Ho ³ Ions in Silicate Glasses Coactivated by Holmium, Erbium, and Ytterbium	440	(821)
Veinberg, I. A. Zhmyreva, V. P. Kolobkov, and P. I. Kudryashov	441	(823)
A Test of the Kramers-Kronig Dispersion Equations over a Wide Temperature Range	443	(826)
Spectra of As vii and Se viii in the Vacuum uv Region	445	(827)
A Light Modulator	446	(830)
Determination of the Natural Line-Width and the Effective Cross Section for Quenching Collisions by the Method of Total Absorption		
Broadening of the Second Caesium Doublet by Inert Cases	447	(831)
Laser Action in Cooled Alcohol Solutions of Rhodamine	448	(832)
A. V. Aristov and Yu. S. Maslyukov	450	(835)
REVIEWS		
Optical Spectra	451	(837)
Optical Rotatory Dispersion and Circular Dichroism in Organic Chemistry Including Applications to		
Inorganic Chemistry and Biochemistry, G. Snatske, ed. (Heyden & Son, Ltd., London, 1967) Optical Physics, M. Garbuny, Energiya Publishing House, Moscow, 1967 (translated from the English	451	(837)
by V. I. Proskuryakov)	452	(839)
LETTERS TO THE EDITOR		
Concerning a New Method of Detecting Weak Light Signals	489	(046)
V. P. Koslov	453	(840)
DISCUSSION Out to Out		
On the Objections of G. G. Ilin and I. S. Fishman	454	(841)
EVENTS		
Second Symposium on Vacuum Ultraviolet Spectroscopy		
V, B. Belyania and V. M. Tilt	455	(842)
Available From The Optical Society of America		

RADIOTERONIKA I KLEKTRONIKA No 3, 1968

NUMBER 3	1968
	Page
N.G. Khrebet: Diffraction of Plane Electromagnetic Waves on the Edge of a	
Dielectric Halfplane	331
Pattern	339
System Partially Filled with an Anisotropic Dielectric	346
by a Spherical Ferrite	357
Component and of the Space Harmonics of a Quadrupole with a Central Conductor	360
V.A. Popov: Efficiency of Weighted Pulse Code Modulation During Fading	364
Modulation of the Klystron	372
B.A. Solomin: Optimum Conversion of Pulse Signals in Parametric Lines	377
in a Medium with Random Heterogeneities	383 391
A.N. Detinov: Optimum Detection of Phase-Manipulated Signals Yu. G. Sosulin: Some Problems of Signal Detection and Filtering Against a	
Background of Markov-type Noise	400
Yu. G. Tratas: Application of Analog Simulation Methods to Optimum Receiver	409
Design	415
S.D. Gvozdover: Propagation of Perturbation and Noise Along an Electron Stream	
Passing Through Plasma in a Low-Voltage Arc	420
A.E. Basharinov, Yu.S. Lobastov and V.G. Testov: The Electron Temperature in Gases Behind a Shock Wavefront. Measurements Employing Thermal	
Radiation at Microwave Frequencies	428
Yu.S. Ryabinkin: Field Transistor Theory Based on the Field Effect Theory	433
I.V. Ryzhikov, I.A. Novoselova, V.I. Rykalin and Yu.N. Nikolaev: Electrical and Optical Properties of Highly Compensated p- and n-type Films in Gallium Phosphide	100
Photo Diodes	440
O.I. Seman: Aberrations of the Electrostatic System of an Electron Microscope BRIEF COMMUNICATIONS	448
K.S. Stankevich: Effects of Terrestrial Tides in Interferometry Employing Mirrors	
Separated by Long Distances	453
I.P. Mazan'ko: Radiophysical Interpretation of Holography	454
with Polarization Grids in the Aperture	457
L.Ye. Kopilovich: The Characteristic of the Magnitude of Fluctuation of the	-
Envelope of a Random Process	459
N.K. Kul'man: Comparison of Noise Immunity of Different Types of Continuous	
Modulation	462
Parameters	464
Channel	468
Systems	(469 (Cont.)

Available From The Institute of Electrical and Electronics Engineers, Inc.



	·
G.Yu. Kohearer: Formulae for the Astantonia of the fielloction Factors of	
Minimum and Hon-Minimum Phone-Type Posters Corpules	471
T.Z. Zhemaytis: Dynamic Frequency Busquines of Redio Circuits to Healinear	
Frequency Changes	473
Ye.M. Bolotov: Distribution of Pulse Length at the Output of a Compression Filter	476
A.N. Danilov: Effect of Self-Bias on the Stability of Tunnel Diode Devices	479
	481
	401
V.A. Godynk and A.A. Kuzovnikov: Plasma Diagnostics by Means of a Radioprobe	
Under a Drifting Potential	484
G.A. Machulka: Investigation of Conditions of TWT Self-Excitation at the	
Boundary Frequencies of the Passbands of Delay Lines	487
B.Ye. Zhelezovskiy, E.V. Kal'yanov and V.A. Gershgoren: Theory of O-type TWT	-
Converters	489
N.V. Karlov and Yu.B. Konev: Output Power of Gas Lasers	491
M.Ya. Rozano and Yu.A. Sher: Generalized Analysis of Coupled Thin Film Lines	493
P.P. Konorov, O.V. Romanov and V.Ya. Uritskiy: The Voltage-Capacitance	
Characteristics of Metal Oxide Semiconductor Structures Obtained by Anodic	
Oxidation of n-type Silicon	496
S.E. Rozhkov and O.K. Kultashev: The Work Function of Alloys of Rhenium and	
Metals of the Yttrium and Gadolinium Groups	498
L.A. Yermolayev and Yu.K. Tsutko: Secondary Electron Emission of Yttrium	
and Lanthanum	499
	703

EDITOR'S NOTE

With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivalents is given below.

Soviet Usage	American equivalent
Arch	cosh ⁻¹
Arcth	coth ⁻¹ (ctnh ⁻¹)
Arsh	sinh ^{-t}
Arth	tanh ⁻¹
arccos	cos-1 (are cos)
arcetg	cot-i (are cot)
arcsin	sin ⁻ⁱ (are sin)
arcig	tan-i (are tan)
ch	cosh
COSC	CSC
otg	oot (ctn)
cth	ooth (otah)
rot	ourl
sch	sech
sh	ainh
¥	tas
th	tanh

Available From The Institute of Electrical and Electronics Engineers, Inc. - 197 -

HALIL-MENTEN 1 HUEKTRONIKA

NUMBER 4	1968
	Page
V.N. Krepak and I.P. Yakimenko: Symmetrical Electromagnetic Waves in a	
Nonuniform Plasma Waveguide	503
B. A. Yevstropov, G. A. Yevstropov and V. D. Korotkov: Synthesis of Linear	508
Grids with Maximum Directive Gain	513
Harmonic Microwave Signals	522
Background of Markov and Non-Gaussian Noise	531
Trains	539
Channel with Partial Beam Separation	543
Circuit	557
N. P. Kuksenko: Efficiency of Light Signal Detection over Several Cycles	563
of a Matched Filter Philipping of the Symphonication Comp.	569
V. P. Dmitriyev: Optimum Filtering of the Synchronization Signal	574
Inversion of the Populations of the Various Levels in Multivalent Argon Ions S. V. Galaktionov and G. F. Filimonov: Effect of Back Radiation on a TWT	578
Operating in the Amplifier Mode	583
G.D. Lobov and V.I. Bogatkin: Detection of Microwave Oscillations with a	500
Plasma Probe Detector	592
Propagation Through a Conductive Medium	599
I.V. Korablev, V.V. Potemkin and F. Yunosov: Low-Frequency Noise in	***
Backward Diodes	605
a Diode	610
V.A. Kuz'mın and V.S. Pershenkov: The Switching Transient of a Thyristor A.A. Borodin and Yu.N. Pehelnikov: Experimental Investigation of Coaxial,	616
Centrifugal-Periodic Electrostatic Focusing	624
BRIEF COMMUNICATIONS	
V. F. Vzyatyshev and A.S. Belanov: Coupling Coefficient of Circular Dielectric	
Waveguides	628
Waveguide with a Dielectric Rod	630
I.A. Kozlov: Synthesis of Matched Smooth Dielectric Junctions	633
B. I. Shakhtarin: A Critical Case in Phase-Lock Control	635
N. Ya. Kur': Energy Relationships in Optimal Spatial Resolutions of Point Targets	(dilta
Available From The Institute of Electrical and Electronics Engineers, Inc	g.

RADIOTEKHNIKA I ELEKTRONIKA No 4, 1968

be a Standburgs Desynchronization in a Phase AFC System	A
A.P. Bringer Sensitivity of regimeration and changes of an Arbitrary	
Parameter	661
V. M. Andrivakhin, A. G. Basiyev, V. V. Lebedeva and A. L. Olintsov: Regenerative	
Power Laser	661
A.I. Othnisov, V.V. Lebedeva and G.V. Abrosimov: Amplification in a Single-	
Frequency Argon Laser	656
N. V. Karlov and Yu. B. Koney: Laser Output Power	651
V. V. Lebedeva, A. I. Odintsov and V. M. Salimov: Excitation Conditions in	
Argon lon Lasers	655
M. S. Borisova and A. M. Pyndyk: The Frequency Spectra of Ion Lasers	658
V. I. Gayduk: Electrodynamics of Bunched Charges Localized by their	
Electromagnetic Fields	661
E.G. Valyashko and R.I. Polushkin: Nonlinearity of Behavior in p-InSb	665
V. Ya. Uritskiy: Effect of Various Conditions of Thermal Oxidation of Silicon	•
on the Density of its Surface States	668
	•
Avetleble Prom The Institute of Plantated and Plantanes To	_
Available From The Institute of Electrical and Electronics Engineers,	inc.

EDITOR'S NOTE

With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivalents is given below.

Soviet Usage	American equivalent
Arch	cosh ⁻¹
Arcth	coth ⁻¹ (ctnh ⁻¹)
Arsh	sinh ⁻¹
Arth	tanh ⁻¹
arccos	cos ⁻¹ (arc cos)
arcetg	cot ⁻¹ (are sot)
arcsin	sin ⁻¹ (are sin)
arctg	tan-1 (are tan)
ch	coeh
COREC	cec
ctg	oot (ctn)
cth	ooth (ctnh)
rot	curl
sch	sooh
sh	sinh
te	tan
th	tanh

STAUB Vol 27, No 12, 1967

Concerning that bruse

Hasenchever, D. 36 Years of Testing Dist-Protection Devices in the Staubfesschungstnittet des Haupeverbandes der gewerblichen Berufigenossenichaften	1
Walter, E. Dust Conditions in the Working Zone of Semiopen Spraying Booths and Stands in the Sanitary- Ceramics Industry	9
Kühnen, G. Assessing the Explosion Hazards of Flammable Dest	1
Schütz, A. The Electrical Charging of Aerosols	4
Coenen, W. A New Principle of Recorded Dust Measurement and Its Technical Application in a Battery- Powered Instrument	2
Heidermanns, G. Phase-Contrast Microscopical Quartz Analysis of Pulverulent Samples with Particular Consideration of the Contrast of Birefringent Minerals	10
Winkel. G. Flow Investigations with the Aid of the Thermistor, as Exemplified by Its Use with the	
Sampling Probe	6
Patent Report	0
Cumulative Table of Contents and Indexes	3
Available From CFSTI TT 67-51408/12	

English summaries at the end of the articles are reproduced exactly from the original German text

CLASS AND CERANICS

A translation of Steklo i Keramika

Volume 24, Numbers 11-12

November-December, 1967

CONTRACTO

	Engl./Russ
NUMBER 11, 1967	
The Glass Industry during 50 Years of Soviet Rule - A. P. Patenko	601 1
Soviet Glass Science - F. G. Solinov and Yu. S. Yanovskii	607 7
Building Ceramics Industry under Soviet Rule—V. K. Kanaev	616 15
of Soviet Rule-A. P. Lyutenko and I. Ya. Yurchak	620 19
Moscow Region Ceramic Industry Awarded Three Lenin Orders-N. D. Dikerman	623 22
OUR FACTORIES HONOR THE FIFTIETH ANNIVERSARY OF SOVIET RULE	
The Avtosteklo Factory-A. V. Strekalov	626 25
Saratov Technical Glass Factory-V. I. Orzhevskii	630 29
Dulevo Porcelain Factory - V. N. Snopkov	634 32
Shchekinsk "Kislotoupor" Factory-A. A. Dul'chenko	637 34
Slavyansk Ceramic Combine-M.V. Gardyga	641 37
Kudinov Ceramic Block Factory—E.I. Rodin	646 41
Lenin's Meeting with Pottery and Glass Workers-V.V. Dobrovol'skii	648 43
Kremlin Ruby Stars Are 30 Years Old (Development of Ruby Glass) -A. S. Chernyak All-Union Competition for the Best Souvenirs and Souver of Glass, Cut Glass, and Ceramics in Honor of the October AnniversL. A. Konstantinova, E. G. Rachuk,	650 44
and S.S. Charnyi.	652 45
NUMBER 12, 1967	
The Dulevo "Pravda" Porcelain Factory	659) 661 insert
Editorial	664 1
Planning Concerns in the Soviet Glass Industry over 50 Years - E. Yu. Lev	665 2
October Revolution Factory-A. S. Ruga and T. I. Antipenko	668 4
Dyatkov Cut Glass Factory-V. F. Tkachevskii	671 6
Stages in Improving Drying Techniques in Fine Ceramics Manufacture-G. A. Kovel'man One of the Causes of the Appearance of Air Bubbles in Sheet Glass-N. A. Pankova and	674 9
L. A. Efimova	678 12
Feeder of a Tank Furnace—M. V. Okhotin, E. i. Raevskaya, and A. I. Tuzikov Pre-Fired Synthetic Silica for Manufacturing Sintered Ware – N. V. Golubena and	682 16
S. A. El'kina	685 18
Available From Consultants Bureau	(Contd)

STEKLO I KERAMIKA Vol 24, No 11-12, Nov-Dec, 1967

	Engl:	/Russ.
New Enamels for the Chemical Industry-Yu. V. Rogozhin, A. V. Rashkovan, and		
Z. 3. aya	689	22
Effect of NF Dispersing Agent and Electrolytes on the Casting Properties of Earthenware		-;
Slip-G. V. Kukolev, V. M. Martynova, and A. I. Chekneva	692	24
Some Features of Bodies and Glazes for Rapid Firing of Tiles in Roller Kilns		
-A. S. Krasnousova.	694	25
***************************************	•••	
INDUSTRIAL EXPERIENCE		
Improving the Resistance and Life of Glass Molds-E. L. Mar'yanchik, I.V. Rogachav,		
and G. T. Bantos.	698	29
Equipment for Neutralizing Drain Water from Chemical Polishing-B. N. Obodnikov	700	30
Colored Glazes for Porcelain Face Tiles-A. N. Smetanina	702	31
New Fettling Machine for Insulators - M. I. Kravelis	706	35
7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		••
ECONOMIC THEMES		
Results and Problems from Working under New Conditions-V. G. Polyakov	707	35
and and a south of the south of	. • •	
INFORMATION		
Heat Engineers Seminar for the Ukraine Potteries	712	39
Dmitri Nikolaevich Potanin Is 60 Years Old	715	41
Surface transfer to an I company to an I company to a I company to		
CRITICISM AND BIBLIOGRAPHY		
Yu. G. Shteinberg-Strontium Glazes-Reviewed by Academician P. P. Budnikov	716	41
Tu. C. Shedhoolg-Deroneidin Clazes-Meviewed by Adademician F. F. Daminov	110	7.
INDEX		
Author Index, Numbers 1-12, 1967	719	
Table of Contents. Numbers 1-12, 1967.	723	
14VIC VI VUILTUIS, NUILUETS 1-14, 1301	123	

The Russian press dates (podpisano k pechati) of the first and last issues covered in this issue of the translation were, respectively, 9/29/1967 and 11/1/1967. Publication of the material translated in this-issue therefore is known to have occurred not prior to the earlier of these dates, but must be assumed to have taken place at intervals starting reasonably soon after this date and ending shortly after the later date.

Available From Consultants Bureau

TSVETNYE METALLY Vol 40, No 4, 1967

Available From Primary Sources (Conti	(beug	
ON THE FOTH BIRTHDAY OF NIKOLAI PETROVICH SAZEDI	85	(74)
Kh. A. Kurumohin and A. P. Yatsenko COMPLEX USE OF COPPER-VANADIUM CAKES FROM THE TITANIUM INDUSTRI	82	(72)
G, A. Maerson and V. G. Mikhailova TREATING SCHEELITE CONCENTRATE WITH NITRIC ACID IN A HEATED BALL MILL	78	(69)
L. S. Kanevakii and B. S. Sinyavakii NEW ADVANCES IN GRAPHITS HEAT EXCHANGERS	75	(66)
N. I. Voronin, N. I. Krasotkina, V. V. Levchuk, L. N. Klyukvina, R. V. Svoboda, I. M. Mal'tseva, M. L. Blyushtein, D. I. Amel'kovich, and A. B. Gluz TESTS OF NEW MATERLAIS FOR CURRENT FEED TO THE CATHODE OF ALUMINUM ELECTROLYSIS CELLS	71	(63)
N. S. Mal'ts and V. A. Bershtein OPTIMUM USE OF HEAT IN THE PRODUCTION OF ALUMINA BY THE BAYER PROCESS	63	(57)
V. V. Narubashchenko, L. N. Antipin, and A. V. Kuleshova HYDRODYNAMIC CONDITIONS AND THEIR EFFECT ON THE GAS SATURATION AND CONDUCTIVITY OF ELECTROLYTES	59	(53)
A. A. Dmitriev, M. A. Korobov, and A. Ya. Sharunov AN EXAMINATION OF THE RELATION— SHIP RETWEEN ANCJE QUALITY AND THE NUMBER AND DIAMETER OF PINS USED IN ALUMINUM ELECTROLISIS	54	(47)
R. A. Burovoi and P. I. Basmanov USE OF SPECIAL FILTERIG MATERIALS FOR ULTRAFINE CLEANING OF GASES AND AIR	49	(44)
N. I. Gel'perin, V. L. Pebalk, V. N. Rozov, L. M. Klyueva, and T. O. Sokolova LEAD AND ZINC EXTRACTION FROM AQUEOUS COBALT SOLUTIONS WITH THE AID OF IONITES	46	(41)
A. A. Salin, Z. E. Nosova, S. D. Grekov, V. A. Leitsin, V. S. Volkova, and E. I. Nik- iforova EFFECT OF CHLORINE IONS ON THE ELECTROREDUCTION OF ZINC DURING ELECTRORE- FINEMENT OF NICKEL	42	(38)
N. I. Ful'man, K. R. Galikeeva, and N. Ya. Yakobi ELECTRODEPOSITION OF ZINC POWDERS FROM ZINCATE SOLUTIONS	37	(33)
G. G. Rennev, I. M. Kogol', A. A. Salin, N. A. Pilipchuk, and N. A. Laptev AUTOMATIC CONTROL OF COPPER CONTENT DURING COPPER CADMIUM PURIFICATION OF ZINC SOLUTIONS	33	(30)
I. N. Plaksin, G. I. Mithailov, L. P. Starchik, and M. I. Silenko DETERMINATION OF THE TUNGSTEN CONTENT FROM THE K-ABSORPTION EDGE OF X-RAYS	30	(27)
A. Ya. Zhavoronkova, E. I. Moiseeva, S. A. Shelkova, and N. F. Mishin QUANTITATIVE DETERMINATION OF OLEIC ACID IN FLOTATION PRODUCTS	28	(26)
A. S. Chernyak, I. K. Skobeev, M. L. Navtanovich, O. P. Ivanov, D. B. Orechkin, and O. F. Shepot'ko EXTRACTING GOLD AND SILVER FROM CYANIDE SOLUTIONS, USING TECHNICAL MIXTURES OF AMINES	24	(23)
V. I. Karmazin, V. M. Iskumenko, V. L. Egorov, and A. D. Butenko SEPARATION IN A COMBINED MAGNETIC FIELD	22	(21)
S. V. Dudankov EFFECTS OF DEPOSITS OF MANTHOGENATES AND METAL OLEATES ON FROTHING	18	(18)
G. F. Trentovskii, G. V. Chenturiya, V. I. Klassen, and L. Ya. Golger MAGNETIC TREATMENT OF PULP PRIOR TO FLOTATION	15	(15)
G. A. Linchevskii 50 YEARS OF THE TIN INDUSTRY IN THE USSR	12	(12)
A. A. Molchanov THE COPPER INDUSTRY OF THE USSR	1	(1)

TSVETNYE METALLY Vol 40, No 4, 1967

V. A. Belysev ELECTRON-BEAM MELTING OF NIOBIUM AND TITANIUM ALIOYS	86	(75)
V. M. Amononko, A. S. Tron', V. M. Azhazha, V. V. Mukhin, D. D. Rybal'chenko, Yu. N. Smirnov, and V. A. Finkel Effect of the Medium on Miobium Profesties During PRESSURE TREATMENT.	<i>2</i> 9	(77)
V. I. Rebrow MECHANIZATION OF HEAVY TUBE DRAW BENCHES AT THE KOL'CHUGINO OTSM PLANT	93	(80)
A. S. Gulyaev Welded Bond quality as a function of Bimetal Rolling Conditions	97	(83)
Yu. M. Vainblat and L. B. Ber COLUMNAR CRYSTALLIZATION DURING CONTINUOUS CASTING OF ALUMINUM	100	(85)
A. I. Khorev, L. A. Druzdeva, B. A. Drozdovskii, and V. M. Loskutov NOTCH SENSITIV- ITY OF VTL4 AND VT16 TITANIUM ALLOYS	103	(87)
E. L. Gurevich, E. L. Rutenberg, and V. A. Savel'ichev COST, QUALITY, AND PRICE OF ARTICLES MADE OF SOLID ALLOYS	105	(89)
V. A. Nazvanova and B. I. Kogan CESIUM AND RUBIDIUM IN NEW TECHNIQUES	109	(92)
N. L. Scholova A CCATING FOR ALUMINUM	113	(95)
IGOR' NIKOLAEVICH PLAKSIN	114	(96)
NOTE: Numbers in parentheses represent page numbers in Russian original.		

RUSSIAN ABBREVIATIONS IN TEXT

	Academy of Sciences, USSR. Communist Party, Soviet Union.
	State Institute of Non-Ferrous Metals.
Gipronikel'	State Institute for the Design and Planning of Nickel Establishments.
Giprotsvetmet	State Institute for the Design and Planning of Non-Ferrous Metals
	Industry Establishments
Gosplan	State Planning Committee of the Council of Ministers of the USSR.
GOST	
	Foreign Literature Publishing House.
Ka zSSR	
I-M.	
Mekhanohr	Scientific Research Institute for the Machanical Concentration of Minerals.
TaNIIOlovo	Central Scientific Research Institute for the Tin Industry.
Vicrssr	
	All-Union Aluminum and Magnesium Institute.

Available From Primary Sources Vol 8, No 4, 1967

USPEKHI FIZICHESKIKH NAUK Vol 93, No 3-4, May-June 1968

VOI 93, NO 3-4, Neg-Daile 1900	Page		ssian erence
The Vibrational Properties of an Electron Gas			
Local Structure of Turbulence in an Incompressible Viscous Fluid at Very High Reynolds	721	93,	444
Numbers A. N. Kolmogorov	734	93,	476
Development of V. I. Veksler's Ideas in the Field of Accelerators	737	93,	593
Development of Research on the Creation of Cybernetic Accelerators	747	93,	611
Acceleration of Charged Particles in a Plasma	750	93,	617
Crystals with Non-linear Polarizability	759	93.	633
Superconducting Magnets			
Valentin Aleksandrovich Fabrikant	783	93,	675
Author Index	798 800	93,	³⁴ 757
Subject Index	802		

Available From The American Institute of Physics Vol 10, No 6, May-June 1968

JOURNAL OF

ANALYTICAL CHEMISTRY

of the USSR

A translation of Zhurnal Analiticheskoi Khimii

Volume 23, Number 1

January, 1968

CONTENTS

		Engl./Russ.	
Electronic Structure of Azo Compounds and of Their Complexes with the Elements.			
Communication 2. A Study of the Ionic State of Arsenazo I by Huckel's			
Molecular Or_tal Method - S. B. Savvin, É. L. Kuzin, and L. A. Gribov Redox Potentials in Mo(VI)/Mo(V) and Mo(V)/Mo(III) Systems - L. A. Karpova,	1	5	
E. F. Speranskaya, and M. T. Kozlovskii	7	13	
Substoichiometric Coulometric Analysis - P. K. Agasyan and T. K. Khamrakulov	12	19	
The Effect of the Purity of the Surrounding (Laboratory) Air on Spectrographic Analysis	12	10	
Results - Kh. I, Zil'bershtein and O. N. Nikitina	17	26	
The Use of Thiosemicarbazides in Analysis. Communication 10. Nitroarylthiosemicar-			
bazides as Indicators in Neutralization and Mercurimetric Methods - N. V. Koshkin	21	31	
Photometric Determination of Lithium - A. I. Lazarev and V. I. Lazareva	26	36	
Comparative Study of Reagents for the Luminescence Determination of Aluminum.			
Communication 2. The Quantum Luminescence Yield of the Aluminum Complexes			
of Some Organic Reagents in Various Solvents - A. K. Babko, A. I. Volkova, and			
T. E. Get'man	28	39	
Determination of Vanadium in Its Different Valence States and of SO4- Ions in Vanadium			
Catalysts - G. L. Elizarova and A. S. Kuznetsova	37	50	
Determination of Tantalum in Rocks and Minerals by Paper Partition Chromatography			
- M. E. Viktorova and V. S. Saltykova	41	55	
Bismuthols as Analytical Reagents. Communication 2. Reaction Between the Reagents			
and Bismuth and Quantitative Determination of the Latter - A. I. Busev,			
L. N. Simonova, and E. I. Gaponyuk	44	59	
Extraction of the Benzeneseleninates of Protoactinium and Other Elements by Isoamyl			
Alcohol - B. F. Myasoedov, E. S. Pal'shin, and N. P. Molochnikova	49	66	
Spectrophotometric Study of the Reaction of Pentavalent Molybdenum with Chromotropic	• •	70	
Acid - I. A. Tserkovnitskaya and N. A. Kustova	54	72	
Spectrophotometric Determination of Nickel, Cobait, and Chromium in Steel.			
Communication 2. The Optical Properties of Nickel and Cobalt Sulfates	57	75	
- N. P. Komar' and L. S. Palagina	51	10	
The Dithicoxalate Complexes of Plantinum and Palladium and Their Use in Analysis	62	80	
- A. T. Pilipenko, N. N. Maslei, and E. A. Karetnikova	02	00	
The Advantages of ac Polarography in Analytical Chemistry - L. S. Nadeshina, E. L. Grinzaid, and É. G. Novakovskaya	67	86	
Analysis of Neodymium—Tellurium Alloys — Yu. S. Sklyarenko, I. I. Nazarenko, and	01	90	
E. S. Razgon	71	91	
The Use of A Mixed Cadmium Sulfide-Carbon Powder Collector for the Chemico-Spectro-	••	74	
graphic Determination of Traces of Elements in Alkali and Alkaline-Earth Metal Salts			
- G. A. Pevisov and T. G. Manova	76	96	
- At Ut & A 1984 with 14 All Internation 111111111111111111111111111111111111	- •	(Contd)	
		(nound)	

Available From Consultants Bureau

ZHURNAL ANALITCHESKOI KHIMII Vol 23, No 1, 1968

CONTENTS

(cantinued) Engl./Russ. A Rapid Photometric Method for Determining Nitrates in Soil by Means of Chromotropic 102 81 Acid - N. I. Basargin and E. A. Chernova................ A Chromatographic Method for Identifying Organic Materials - V. G. Arakelyan, L. S. Sarycheva, and V. P. Evdakov.......... 87 109 Calculation of Chromatograms with Off-Chart Peaks - B. A. Rudenko, A. A. Noravyan, and 91 114 V. F. Kucherov Determination of Phenol Derivatives in Alcoholic Media - A, P. Kreshkov, L. N. Bykova, 123 and Z. G. Blagodatskaya A Rapid Sulfite-Iodometric Determination of Formaldehyde - P. K. Norkus and S. P. Stul'gene..... 130 Photometric Determination of β -Chlorovinylaldehydes - M. A. Volodina, V. A. Kudryashova, Determination of the Impurity Content of Trioxane - R. I. Sidorov and A. A. Khvostikova . . 108 137 Use of Carboxylic Acids as Activators for the Kinetic Determination of Microamounts of 143 Permissible Deviations during the Analysis of Cryolite and Sodium Fluoride 145 Spectrophotometric Determination of 4,5-Dimethylphthalic Anhydride in Pyromellitic Dianhydride - N. P. Anashkina, M. T. Golikova, and I. I. Tokarskaya 119 148 CRITICISM AND BIBLIOGRAPHY G. A. Laitinen. Chemical Analysis - Reviewed by A. T. Pilipenko 121 150

The Russian press date (podpisano k pechati) of this issue was 1/9/1968. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available From Consultants Bureau

JOURNAL OF

ANALYTICAL CHEMISTRY

of the USSR

A translation of Zhurnal Analiticheskoi Khimii

Volume 23, Number 2

February, 1968

CONTENTS

F .	ingl./	Russ.
Ionization of Thioglycolic Acid — O. S. Musailov, B. A. Dunai, and N. P. Komar'	123	157
— I. P. Alimarin and M. N. Petrikova	127	161
- G. G. Devyatykh, N. Kh. Agiliulov, and A. Feshchenko	131	166
 V. M. Dziomko, S. L. Zelichenok, and I. S. Markovich	134	170
Practical Use — Kh. K. Ospanov, S. N. Fedosov, and Z. B. Rozhdestvenskaya	138	175
Acid — A. I. Busev and A. N. Shishkov		
- K. Ya. Grachev and V. Z. Grebenik		
Sulfochlorophenol R - V. D.Salikhov and M. Z. Yampol'skii	150	189
 V. M. Peshkova, M. I. Gromova, and T. I. Romantseva. Spectrographic Determination of Small Amounts of Niobium and Tantalum in Rocks after Their Preliminary Chemical Concentration - V. M. Alekseeva, A. K. Rusanov, and 	157	197
N. V. Il'yasova	161	202
and G. F. Sadova	165	206
Concentration – A. D. Khlystova	169	211
- A. A. Nemodruk, P. N. Palei, and L. P. Glukhova	172	214
- N. M. Milyaeva and O. A. Songina		
Extraction-Photometric Determination of Nickel as Its Nickel-Diantipyrylmethane- Dithiooxalate Complex - A. T. Pilipenko, N. N. Maslei, and E. G. Skorokhod		
Concentration of Materials in Polarographic Analysis. Communication 13. Nickel Determination — Kh. Z. Brainina and É. Ya, Sapozhnikova	188	

CONTENTS

ZHURNAL ANALITICHESKOI KHIMII Vol 23, No 2, February 1968

(continued)
Engl./Russ.

	Engl./	nuss.
Spectrophotometric Determination of Osmium (VIII) by Means of Thiocyanate		
- V. I. Shlenskaya and V. P. Khvostova	. 193	237
- R. G. Pats, L. N. Vasil'eva, and T. V. Semochkina	. 196	241
Use for Analysis of Pure Materials - M. P. Semov	. 200	245
Determination of Oxygen Dissolved in Liquids by Means of Isotope Dilution - N. N. Mukhin and V. B. Aleskovskii	. 203	249
Determination of Iodine in the Presence of High Polymers by Direct Argentometric Titration - V. O. Mokhnach and L. N. Propp	. 208	255
Determination of Jinc Oxide in the Lattice of Zinc Sulfide Luminophors - E. I., Denisov and		
A. S. Khalonin		261
- W. Wolski, J. Supinski, and J. Skrypczak	. 218	267
Z. G. Blagodatskaya, and V. D. Ardashnikova		271
I. S. Novikova, and V. M. Dem'yanovich	. 228	278
- B. P. Zhantalai and Ya. I. Tur'yan	. 231	282
4-Aminocyclohexylalkanoic Acids - É. P. Usova and L. I. Mitina	. 236	289
L. A. Gorskaya, and A. M. Rubinshtein	. 239	293
- A. I. Lebedeva and N. A. Platonova	. 242	297
Mercuric Acetate in Aqueous Media - B. M. Bulygin, L. N. Shvetsova, and E. A. Emelin.	246	301
BRIEF COMMUNICATIONS The Possibilities of Determining Traces of Elements Mass Spectrometrically as Their		
Readily Volatile Compounds - R. G. Arshakuni	. 251	307
Gas-Liquid Chromatographic Determination of Methyl Isocyanate and Carbon Tetrachloride in Their Mixtures - S. V. Nikeryasova and G. D. Litovchenko	. 254	309
Quantitative Determination of Butene-2-Diol-1,4 and Butyne-2-diol-1,4 in Each Other's Presence - R. N. Sivakova and V. I. Lyubomilov	. 256	311
Polarographic Determination of Octachlorocyclopentene and Hexachlorocyclopentadiene in Their Mixtures - L. G. Fecktistov, Yu. S. Lyalikov, and A. S. Solonar'		313
CRITICISM AND BIBLIOGRAPHY	. 300	-
Chemiluminescence Analysis – A. K. Babko, L. I. Dubovenko, and N. M. Lukovskaya Analytical Reaction Gas Chromatography – V. G. Berezkin		316 317
CHRONICLES	, 444	911
Moscow Seminar on Analytical Chemistry - Reporter E. K. Korchemnaya	. 264	318

The Russian press date (podpisano k pechati) of this issue was 2/5/1968. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI Vol 53, No 6, 1967

	Раде		Russian Reference	
	- 250	2.016	2101100	
Mechanisms of Destruction of Ruby and Leucosapphire Crystals by Powerful Laser Radiation G. M. Zverev, T. N. Mikhailova, V. A. Pashkov, and N. M. Solov'eva Investigation of the Dynamic Polarization of Ferroelectrics	1053	53,	1849	
Many-electron Ionization in Close Collisions of Ar and Kr Ions and Atoms	1058	53,	1858	
Dichroism and Magnetic Anisotropy of Erbium Iron Garnet	1066	53,	1872	
Change of the Parameters of the Electron Energy Spectrum in Bismuth Under Pres-	1069	53,	1879	
sure E. S. Itskevich and L. M. Fisher Current-convective Instability of an Electron Beam in a Plasma	1072	53,	1885	
Magneto-optical Properties of Ni, Co, and Fe in the Ultraviolet Visible, and Infrared	1075	53,	1891	
Parts of the Spectrum	1080	-53,	1901	
EPR of Some Rare Earth Ions and Cr ³⁺ in LiNbO ₃ Crystals	1086	53,	1913	
N. F. Evlanova, L. S. Kornienko, L. N. Rashkovich, and A. O. Rybaltovskii Electron-nuclear Double Resonance of F Centers in LiF	1090	53,	1920	
N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod Production of Highly Excited Hydrogen Molecules and Atoms by Fast H ₂ and H ₃ Ions Passing through H ₂ . Ne, and Mg and Na Vapor E. S. Solov'ev, R. N. Il'in,	⁻ 1094	53,	1927	
Recombination Fluorescence of Anthracene in a Magnetic Field	1097	53,	1933	
Statistical Emission Properties of a Nonresonant Feedback Laser	1102	53.	1942	
Effect of Electron Structure on the Compressibility of Metals at High Pressure	1109	53,	1955	
Uniaxial Magnetic Anisotropy of Dysprosium and Terbium	1115	53,	1967	
The Overhauser Effect in Liquid Solutions of Cr(V) and Mo(V) Complex Compounds	1121	53,	1978	
Similarity Hypothesis for Correlations in the Theory of Second Order Phase Trans-	1123	53,	1982	
itions	1126	53,	1987	
A Criterion Identifying Weakly-perturbing Systems, Based on Measurement of Elastic	1132	53,	1997	
Scattering			2012	
Sound-like Waves in the Electron Plasma of Metals in a Quantizing Magnetic Field.	1146	-,-	-	
Frequency Dependence of the Electric Conductivity of Metals with Impurities	j151	53,	2034	
Determination of the Pseudopotential Fourier Components on the Basis of Interband Transitions in the Optical Range A. I. Golovashkin, A. I. Kopeliovich,			2041	
Hydromagnetic Stability of a Plasma in a Quasi-uniform Magnetic Field			2053	
	1167		_2063 (Contd)	

Available From The American Institute of Physics Vol 26, No 6, 1968 - 210 -

ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI Vol 53, No 6, 1967

		Russian Reference	
Theory of Excitation of Excitons and Phonons by a Strong Electromagnetic Field	1171	53.	2070
Coexistence Curve for a Liquid and Gas Near the Critical Point	1176		2079
Kinetic Phase Transitions	1182	53,	2090
A "Soluble" Case of Bound States of Conduction Electrons and Magnetic Impurity	1187	53,	2099
Atoms	1192	53,	2109
Thermodynamics of Electron Diamagnetism for the Case of an Inhomogeneous Mag-	1199	53,	2123
netic Moment M. Ya. Azbel' Possible Resonance Phenomena in the Kinetics of Molecular Gases	1203	53,	2131
Thermoelectric Effect in Superconductors V. D. Borman, L. A. Maksimov, Yu. V. Mikhailova, and B. I. Nikolaev	1210	53,	2143
Radiation Line Width in the Josephson Effect	1216	53.	2154
Effect of Deformation on the Electron Spectrum of Bismuth	1219		2159
Parametric Excitation of Plasma Waves by a High-frequency Electric Field in an In-	1222	•	2164
homogeneous Plasma	1225		2168
Adiabatic Transformation of the Electromagnetic Wave Spectrum in a Plasma	1229	53,	2176
Total Bremsstrahlung Spectrum of Ultrarelativistic Electrons	1234		
Magnetization of a Ferrodielectric Along an Axis of Difficult Magnetization	1238	_	2194
Quantum Statistics of Multi-mode Radiation from an Ensemble of Atoms	1243		2203
Concerning the Thermodynamics of a Dense Plasma	1246		2210
Clarification of "Contribution to the Theory of Collective Oscillations in Polar Liquids"	1252 1257		2223
Author Index to volume 26	1258 1276	53.	2235 2235 2247

Available From The American Institute of Physics Vol 26, No 6, 1968

JOURNAL OF GENERAL CHEMISTRY

of the USSR

A translation of Zhurnal Obshchei Khimii

Volume 38, Number 1

January, 1968

CONTENTS

	Engl	./Russ
Thermal and Photodecomposition of Dialkyl Derivatives of Zinc - G. A. Rasuvaev,		
R. F. Galiulina and G. G. Petukhov	1	3
Physicochemical Analysis of Binary Liquid Systems Antimony Trichloride-Aliphatic	•	•
Alcohols - Yu. Ya. Fialkov and V. P. Basov	5	7
A Physicochemical Study of Binary Systems of Acetone and Dimethyl Sulfoxide with Phenol		•
Derivatives - V. F. Chesnokov, I. M. Bokhovkia, A. P. Orlovs, and E.G. Veselkova	9	12
Crystallization of a Ternary Mixture of Eugenol Isomers - M. Sh. Dzhashiashvili,	•	
N. I. Gel'perin, and N. I. Zelenetskii	13	16
Rate of Ion Exchange in a Complexing Ion-Exchange Resin - Polystyrene-Azosalicyclic Acid		
- V. N. Tolmachev, B. M. Kolesnikova, and Do Min Hong	15	18
Ortho Esters of Trichloroacetic Acid - V. L Shevchenko and A. A. Koval'	19	22
Dinitriles and Diamides of α,α,α', α'—Tetrachloro-ω,ω'-dicarboxylic Acids		
- V. I. Shevchenko and V. P. Kukhar'.	21	24
Interaction of Trifluoronitrosomethane with Amines, III. Reactions with Isopropylamine,		•
Isobutylamine, Tetramethylenediamine and Hexamethylenediamine — A. S. Filatov		
	24	26
and M. A. Englin	34	20
Some Physicochemical Properties of Barbiturates and Their Relation to Physiological	26	
Activity - M. E. Cheboltasova, V. D. Gol'tsev and N. D. Strel'nikova	20	28
Separation of β -Diketonates of Lanthanides by Thin Layer Chromatography - A. L. Subbomin,		
E, V. Ivanov, G. A. Domrachev	29	30
Halogenation of 1,1,1-Trifluoroazomethane - A. S. Filatov, S. P. Makarov, and		
A. Ya. Yakubovich	32	33
Some Chemical Properties of Pentafluoroazomethane - A. S. Filatov, S. P. Makarov, and		
A. Ya. Yakubovich	34	35
Reactions of Perfluoromethylmethylenimine. L. Addition of Electrophilic Agents - Hydrogen		
Falides, Nitric or Sulfuric Acid - S. P. Makarov, M. A. Englin, V. A. Shpanskii, and		
I. V. Ermakova	37	38
Fluorination of Trifluoromethanesso-2-chloroethane - A. S. Filatov, S. P. Makarov, and		
A. Yu. Yakubovich	39	40
Potential Antineoplastic Compounds. II. Dichlorodiethylamides of Some Aliphatic Acids		
– L. N. Volovel'skii and O. P. Vasilevskaya	41	42
Synthesis and Dehydration of Primary-Tertiary Ethylene 6-Glycols - A. S. Medvedeva,		
T. A. Favorskaya, V. M. Vlasov, and L. P. Safronova	43	43
Reaction of Biuret with Aldehydes and Ketones of the Aliphatic Series - A. E. Kretov,	•	
M. S. Malinovskii and V. L. Bairak	44	47
	10	/ harm

ZHURNAL OBSHCHEI KHIMII Vol 38, No 1, 1968

CONTENTS

(continued

	Eng	I./Russ.
Investigations in the Field of Tetracyclines. XLVII. Derivatives of (4-Keto-5,10-dihy-		
droxy-9-methyl-1,2,3,4-tetrahydroanthryl-2)glycine - A. I. Gurevich, M. G. Karapemyan, M. N. Kolosov, V. G. Korobko, V. V. Onoprienko, and S. A. Popravko Studies on Tetracyclines. XLVIII. Synthesis of 4-Dimethylamino-5a,6-anhydrotetracycline	49	50
- A. I. Gurevich, M. N. Kolosov, V. G. Korobko, and S. A. Popravko The Chemistry of Polymixin M. XI. Synthesis of Analogs. Preparation of a Protected Heptapeptide - Ezzel'din Mokhamed Saad Salem, N. V. Fedoseeva, A. B. Silaev, and	56	57
V. M. Dorokhova	. 60	62
Pyrimidine Base Bond in the Albamycin Molecule - G. I. Lavrenova and N. A. Poddubnay Syntheses Based on Diterpenes. X. The Oxidation of Methylabietate with Monoperphthalic		65
Acid - V. V. Titov, D. P. Popa, and G. V. Lazur'evskii		71
Periodate – L. I. Kudryashov, M. A. Chlenov, P. N. Smirnov, and S. D. Kovacheva The Radiation Chemistry of Carbohydrates. VIII. The Structure of the Deoxysugar Formed in the Radiolysis of Methyl α -D-Glucoside and the Mechanism of Its Formation		74
- N. K. Kochetkov, L. I. Kudryashov, and M. A. Chlenov		79
tapyranosides - V. B. Mochalin, Yu. N. Porshnev, and G. I. Samokhvalov Some Reactions of Barene Grignard Reagents - L. I. Zakharkin, G. G. Zhigareva, and		85
A. V. Kazantsev Some Properties of Ortho-Substituted Azomethines and Their Chelates of Copper and Cobalt		89
- A. P. Terent'ev, E. G. Rukhadze, G. P. Talyzenkova, and E. M. Povolotskaya Organoberyllium Compounds and Their Chemical Changes. II. Reaction of Acylberyllium		93
Halides with Ketones – I. I. Lapkin and T. N. Povarnitsyna		99
X = I, OH, CH ₃ COO - L. N. Snegur and Z. M. Manulkin	, 100	102
β-Metallated Vinyl Ethers - M. A. Kazankova, N. P. Protsenko, and I. F. Lutsenko Synthesis and Properties of Complexes of Organoaluminum Compounds with Diphenyl Ether		106
- V. P. Mardykin, P. N. Gaponik, and E. I. Kvasyuk		109
of Dyes with Antipyrine Nuclei - V. V. Sinev, O. F. Ginzburg, and É. I. Kvyat The Reaction of Ketene with Nitrogen-Containing Bases. XXIV. The Synthesis and Chloroacetylation of 2-Arylimino-4-thiazolidones - Yu. V. Svetkin, A. N. Minlibaeva, and	. 111	112
S. A. Vasil'eva		116
- A. I. Tolmachev, L. M. Shulezhko, and A. A. Kisilen'to	۱,	118
and A. V. Kirsanov	, 121	122
L. S. Kovalev, and A. A. Petrov	. 125	126
- V. V. Tarasov, Ya. S. Arbisman, Yu. A. Kondrat'ev, and S. Z. Ivin	. 129	130
- I. V. Murav'ev, N. I. Zemlyanskii, and E. P. Panov	. 133	133
Triphosphonitrile Chloride - A. A. Kropacheva and N. M. Kashnikova	. 135	136 Contd)

ZHURNAL OBSHCHEI KHIMII Vol 38, No 1, 1968

CONTENTS

(continued)

		•
•	Engl.	/Russ.
Thermal Isomerization of Diethyl Acetylphosphite and phites with Esters of α-Ketophosphonic Acids – A Phosphonate – Phosphate Rearrangement of Esters of Ivdroxyalkylpho onic Acids	139	140
Phosphonate - Phosphate Rearrangement of Esters of Iydroxyalkylpho onic Acids - A. N. Pudovik, I. V. Gur'yanova, L. V. Banderov and G. V. Romar Spectra and Structure of Organ cosphorus Derivative: Ethylenimine	142	143
- R. R. Shagidullin and N. Grechkin	148	150
methyl Phosphinates - L. E. Dmitrieva, K. V. Karavanov, and S. Z. Ivin Synthesis of Aromatic and Heterocyclic Derivatives of Phosphorylated Chloroethylamines	154	157
- I. I. Kuz'menko and Z. B. Bapp	156	158
Triphenylphosphazothiocarb. Myss - I. N. Zhmurova, A. P. Martynyuk, and F. I. Derkach. Derivatives of Phosphinic and Phosphonous Acids. XLVIII. Esters of Allylphosphonous Acid, Containing Isoalkov, Choups, and Their Structure - B. G. Liorber,	161	163
Z. M. Khammatova, I. V. Berezovskaya, and A. I. Razumov	163	165
- N. N. Mel'nikov, T. P. Nrylova, I. L. Vladimirova, and M. F. Tsyganova Organic Insecticides. Synthesis of Some New Mixed Esters of Thiophosphoric Acid,	165	167
Containing a Carbonyl Group in the Ester Radical - T. S. Tyrkina, K. D. Shvetsova-Shilovskaya, and N. N. Mel'nikov	167	169
between the Silicon Atoms. XIII. Synthesis and Some Properties of Alkylethynyldisilylmethanes - N. P. Smetankina, V. P. Kuznetsova, and S. D. Lyukas	170	171
- K. A. Andrianov, A. S. Kochetkova, and L. M. Khananashvili	174	175
V. P. Kuznetsova, and K. A. Kornev	177	178
 Yu. I. Khudobin, M. G. D'yachenko, N. P. Kharitonov, and P. A. Vasil'eva Synthesis and Transformations of Unsaturated Organosilicon Compounds. LXI. Synthesis and Transformations of Dimethyl-p-tolylsilanol - I. A. Shikhiev, R. Yu. Gasanova, 	180	181
and B. M. Guseinzade	188	188
LETTERS TO THE EDITOR Synthesis of Oxytocin without the Isolation of the Intermediates - O. V. Kesarev,		
V. F. Martinyov, and M. I. Titov	190	190
I. F. Lutsenko	191	191
A. I. Yakubchik, L. N. Mikhailova, and Zh. A. Matveeva	193	192
G. M. Bogolyubov, and A. A. Petrov	194	193
Dimethylformamide - B. I. Stepanov and G. I. Migachev	195	194 194
thionates — A. N. Pudovik and V. K. Krupnov	197	195
A. A. Petrov	199	196
	le	ontd)
Available From Consultants Bureau	•	

ZHURNAL OBSHCHEI KHIMII Vol 38, No 1, 1968

CONTENTS

(continued)

Engl./Russ. 197 Reactions of Trialkyl Phosphites with Chloroprene - A. N. Pudovik and É. A. Ishmaeva . . . 201 Reaction of Esters of Orthoacetic Acid with Chlorides of Acids of Trivalent Phosphorus 198 - V. V. Moskva, A. I. Maikova, and A. I. Razumov................ Synthesis of Phosphorylated Benzothiazolines - A. I. Razumov, B. G. Liorber, and 199 203 Synthesis of Tris(trialkylsilyl) Phosphites - L. N. Volodina 204 200 The Reaction of O-Triethylsilyl O-Methyl Ketene Acetal with Halides of Silicon and 200 Germanium - V. K. Vorotilina, G. S. Burlachenko, Yu. I. Baukov, and I. F. Lutsenko.. Nucleophilic and Radical Addition of Ethyl Mercaptan to 1-Triethylsilyl-1,3-butadiene 202 A New Method for Obtaining bis(Trialkylsilyl) Sulfates - N. V. Komarov and O. G. Yarosh . 202 Unsaturated Stannohydrocarbons. Action of Triethyltin Hydride on Enynic Compounds - E. N. Mal'tseva, V. S. Zavgorodnii, I. A. Maretina, and A. A. Petrov 203 The Composition of the Fractions of Propyl- and Pentylphenols - I. F. Radzevenchuk and 204 É. Kol'tsova Tris(triphenylsilyl)antimony and -Bismuth - N. S. Vyazankin, G. S. Kalinina, 205

The Russian press date (podpisano k pechati) of this issue was 1/4/1968. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

KEVIN J. CROWLEY	3679	Photoisomerizations. X. The Photochemical Transformations of Alloocimene
IRVING J. BOROWITZ, KENNETH C. KIRBY, JR., PAUL E. RUSEK, AND REIN VIRKHAUS	3686	The Reactions of Triphenylphosphine with α -Haloisobutyrophenones and with α -Mesyloxyisobutyrophenone
Hugh R. Hays	3690	The Reaction of Diethyl Phosphonate with Methyl and Ethyl Grignard Reagents
J. N. Gardner, T. L. Popper, F. E. Carlon, O. Gnoj, and H. L. Herzog	3695	The Preparation and Reactions of Some 17α -Hydroxy-15-pregnen-20-ones
GEORGE A. BOSWELL, JR.	3699	Reaction of Nitrosyl Fluoride and Selected Steroid Enes. A New Synthesis of Δ^{L} -4-Keto Steroids
H. B. Sinclair	3714	Preparation and Characterization of Two 1,2:5,6-Di-O-bromoethylidene-D-mannitols
Hiroshi Takeda, Walter H. Schuller, and Ray V. Lawrence	3718	Novel Ring Openings in Methyl Levopimarate
Donald E. Kiely and Hewitt G. Fletcher, Jr.	3723	Chemical Synthesis of D-xylo-Hexos-5-ulose 6-Phosphate, a Putative Intermediate in the Biosynthesis of myo-Inositol
Kenneth J. Ryan, Edward M. Acton, and Leon Goodman	3727	Intramolecular Displacement by Neighboring Thiolbenzoate. Formation of Sugar Episulfides
Hans H. Baer and Ivan Furić	3731	A Novel Furanoside Synthesis. Conversion of Methyl 6-Deoxy-6-nitro-α-D-glucopyranoside into Methyl 3-Deoxy-3-nitro-β-L-ribo- and -arabinofuranosides and Corresponding Amino Sugars
S. Morris Kupchan and John J. Merianos	3735	The Isolation and Structural Elucidation of Novel Derivatives of Aristolochic Acid from Aristolochia indica
J. F. Carson, Lois E. Boggs, and Robert Lundin	3739	The Base Cyclization of Vinylic Cysteine Sulfones
Werner Herz, P. S. Subramaniam, and T. A. Geissman	3743	3-Epiisotelekin from Gaillardia Aristata Pursh. and the Structure of Farinosin
W. C. WILDMAN AND D. T. BAILEY	3749	Novel Alkaloids Containing the [2]Benzopyrano[3,4-c]indole Nucleus
ERNEST L. ELIEL AND CHESTER A. GIZA	3754	Conformational Analysis. XVII. 2-Alkoxy- and 2-Alkylthiotetrahydropyrans and 2-Alkoxy-1,3-dioxanes. The Anomeric Effect
Preston K. Martin, H. Randell Matthews, Henry Rapoport, and G. Thyagarajan	3758	The Synthesis of 1,4-Substituted Imidazoles
Benjamin Frydman, Santiago J. Reil, Juan Boned, and Henry Rapoport	3762	Synthesis of Substituted 4- and 6-Azaindoles
K. T. Potts, U. P. Singh, and J. Bhattacharyya	3766	Bridgehead Nitrogen Heterocycles. I. A Convenient Synthesis of Pyrazolo [1,5-a] pyridines
Thomas E. Young and Richard A. Lazarus	3770	1-Alkyl-2,5-diphenyl-1,4-dithiinium Salts and Their Ambident Behavior toward Bases
F. I. CARROLL AND ABRAHAM PHILIP	3776	The Use of a Protecting Group in the Synthesis of 9-Alkyl-9H-purine-6(1H)-thiones
M. Winn and H. E. Zaugg	3779	Intramolecular Amidoalkylations at Carbon. Synthesis of Heterocyclic Amines
ROBERT A. STEIN AND KAREN B. HAACK	(Tönt	Synthesis and Stereochemistry of the 3/3-Diffuoro-2,4-dialkyloxetane System

Available From The American Chemical Society - 216 -

ZHURNAL ORGANICHESKOI KHIMII Vol 33, No 10, 1968

FAUSTO RAMIREZ, C. P. SMITH, J. F. PILOT, AND A. S. GULATI	3787	Reaction of Tertiary Phosphines with Hexafluoroacctone and with o-Quinones. Attack by Phosphorus on Carbonyl Oxygen and Isolation of 2,2,2-Trialkyl-2,2-dihydro-1,3,2-dioxaphospholanes
Jin-liang Wang and H. R. Menapace	3794	Metathesis of 2-Pentene by a Binary Catalyst System of Tungsten Hexachloride and n-Butyllithium
Albrecht W. Friederang and D. Stanley Tarbell	3797	Stereochemical Consequences of Methoxyl Participation. The Absolute Configuration of 2-Chloro-5-methoxypentane
HAROLD HART, RICHAR H. SCHLOSBERG, AND ROGER K. MURRAY, JR.	3800	The Acetylation of Phenylcyclopropane
A. W. HERRIOTT, E. P. OLAVARRIA, AND W. M. JONES	3804	Acid-Catalyzed Ring Opening of 3-Phenyl-1,2-bis(α-hydroxymethyl)-cyclopropanes and 3-Phenyl-2-(α-hydroxydiarylmethyl)diphenylmethylenecyclopropanes
J. R. EDMAN AND H. E. SIMMONS	3808	Bicyclo [2.2.1] hepta-2,5-diene-2,3-dicarboxylic Anhydride
Robert A. Moss and Joanne R. Przybyla	3816	Cyclopentadienylidene. Stereochemistry of the Addition Reaction
E. C. Ashby and Frank W. Walker	3821	The Composition of Grignard Compounds. V. In Triethylamine Solution
L. M. KONZELMAN AND R. T. CONLEY	3828	Chemistry of Cyclopropanes. I. Synthesis and Deamination of Spiroamines
F. N. Jones and R. V. Lindsey, Jr.	3838	Chemistry of Allene. III. Cyclooligomerization. Synthesis of 1,4,7-Trimethylenespiro [4.4] nonane and a New Pentamer
I. Lillien and R. A. Doughty	3841	Nonplanar Cyclobutane. Evidence for a Conformationally Controlled, Classic Mechanism in the Deamination of cis- and trans-3-Isopropylcyclobutylamine
William E. Truce and Christian T. Goralski	3849	Cyclopropanesulfonic Acid Esters and Amides
E. J. Fendler and J. H. Fendler	3852	Hydrolysis of Nitrophenyl and Dinitrophenyl Sulfate Esters
M. Rogozinski, L. M. Shorr, U. Hashman, and D. Ader-Barlas	3859	Bromine Telomerization
Lamar Field and John D. Buckman	3865	Organic Disulfides and Related Substances. XXV. Thiocarbamoyl and Imidocarbamoyl Disulfides
Marvin Charton and Barbara I. Charton	3872	The Variation of the ortho Electrical Effect with Solvent
Marvin Charton	3878	A Linear Free-Energy Relationship for Acceptor Strength in Charge-Transfer Complex Formation. I. Substituted Benzene Donors
William H. Richardson and Ronald S. Smith	3882	A Comparison of Peroxide and Ether Groups as Proton Acceptors in Intramolecular Hydrogen Bonding of Alcohols
CHEVES WALLING AND JACK C. AZAR	3885	Solvent Effects in the Decomposition of Benzoyloxy Radicals
Cheves Walling and Jack C. Azar	3888	The Induced Decomposition of Per Esters and Mixed Perixodes in the Presence of Alcohols and Ethers
K. S. Balachandran, Ila Bhatnagar, and M. V. George	3891	Oxidation by Metal Oxides. IV. Oxidation of Organic Compounds Using Nickel Peroxide
Raymond Seltzer	3896	The Reactions of Organotin Chlorides with the Cyanodithiomidocarbonate Anion
Earl S. Huyser and Richard H. S. Wang	3901	Oxidation of Phenylhydrazine with Polyhalomethanes
Robert L. VanEtten and John J. Dolhun	3904	Effects of Hydrogen-Bond Formation by Phenols on the Conformational Equilibrium of trans-1,2-Dimethyl-2-isopropylaziridine
Judith Lynch Miller, Francis C. Neuhaus, Frederick O. Lassen, and Charles H. Stammer	3908	The Reactions of 3,6-Bis(aminoxymethyl)-2,5-piperazinedione with Acid and Alkali. A Kinetic Study
James A. Marshall, Gordon L. Bundy, and Wayne I. Fanta	3913	Studies Relating to the Synthesis of (+)-Valeranone
Kenneth D. Stevens and Stanley Seltzer	3922	Thiocyanate-Catalyzed cie-trans Isomerization of cie-\$-Acetylacrylic Acid. A Model for Maleylacetoacetic Acid
HENRI ULRICH, B. TUCKER, F. A. STUBER, AND A. A. R. SAYIGH	3928	Cycloaddition Reactions of Isocyanates. The Reaction of Aryl Isocyanates with N,N-Dimethylformamide
((Cont	1)
A 48 . a		•

Available From The American Chemical Society - 217 -

ZHURNAL ORGANICHESKOI KHIMII Vol 33, No 10, 1968

ELIZABETH DYER, THEODORE E. MAJEWSKI, AND JOHN D. TRAVIS	3931	Reactions of Aryl Isocyanates with Substituted Formamides and Formamidines
J. A JRDEN, JR., AND D. L. HEYWOOD	3932	The Reaction of Ethylene- and Propylenediamine with Esters of Trihaloacetic Acids
H. M. Walborsky and T. Bohnert	3934	A New Synthesis of Triptycene Systems
Mordecai Rabinovitz and Gad Salemnik	3935	The Hydroboration of 10-Benzylidene-9-anthrones
P. M. Quan	3937	Reactions between Glyoxal and Ethyl Carbamate
Joseph G. Lombardino	3938	Reaction of 2,3-Dihydrobenzo[b]thiophen-3(211)-one 1,1-Dioxide with Electrophiles
William J. Houlihan and William J. Theuer	3941	Heterocycles from Hydrazino Alcohols. An Unusual Carbon-Carbon Bond Cleavage
Donald K. Wedegaertner and Michael J. Millam	3943	Bromination of 1,2-Cyclononadiene. Preparation of cis- and trans-2,3-Dibromocyclononene
M. W. WILLIAMS	3946	New Synthesis of Some 1,5-Diazacyclooctanes
WILLIAM E. PARHAM AND K. S. YONG	3947	Steric Effects in the Solvolysis of cis- and trans-1,1-Dichloro-2,3-dipropylcyclopropane
Antonio Carbonaro, Alberto Greco, and Gino Dall'Asta	3948	Oligomerization Catalysts. III. Cyclocodimerization of Conjugated Dienes with Acetylenic Hydrocarbons Catalyzed by Iron(0) Complexes. Synthesis of 1,2-Diphenyl-1,4-cyclohexadiene
Joseph Wolinsky and Michael Senyek	3950	Reaction of Methylmagnesium Iodide and Diethyl 1,2-Cyclohexanedicarboxylates
Anthony Joseph Sisti	3953	An Attempted Ring Enlargement. III. The Synthesis and Decomposition of the Magnesium Salt of 1-Bromomethyl-1-cyclohexanol
Isao Hashimoto, Membo Ryang, and Shigeru Tsutsumi	3955	The Reaction of Phenyl Derivatives of Transition Metals with Acetylene
B. W. Ponder, Thomas E. Walton, and William J. Pollock	3957	The Addition of Nitrosyl Chloride to Cyclohexene
R. E. A. Dear	3959	Perhalo Ketones. The Reaction of Perhalo Ketones with Silanes
JOHN W. LARSON AND LOREN G. HEPLER	3961	Substituent Effects and Thermodynamic Consequences of Linear Free-Energy Relations
Nobuko Koga and JP. Anselme	3963	The Preparation of 1,1-Diarylhydrazines
GERALD JAY GLEICHER	3964	Bond Deformations in Conjugated Molecules
R. M. Dodson and Victor C. Nelson	3966	Correlation of the Chirality of the Disulfide Group with Its Molecular Ellipticity
RICHARD L. HANSEN	3968	Charge-Transfer Properties and Electrochemistry of Quinones with Donor Substituents
Fillmore Freeman, Penelope J. Cameron, and Richard H. DuBois	3970	Chromyl Chloride Oxidations. I. Preparation of Carbonyl Compounds from Alkenes
Earl S. Huyser and Kenneth L. Johnson	3972	Concerning the Nature of the Polar Effect in Hydrogen Atom Abstractions from Alcohols, Ethers, and Esters
S. D. DARLING AND R. L. KIDWELL	3974	Diphenylketene. Triphenylphosphine Dehalogenation of -Bromodiphenylacetyl Bromide
Ronald Harville and Samuel F. Reed, Jr.	3976	Sulfide Oxidation of N-Halosuccinimides
Leonard H. Schwartz	3977	Electron-Impact Fragmentation of Triptycene. The Question of Bridgehead Carbonium Ions
John W. Westley and B. Halpern	3978	The Use of (-)-Menthyl Chloroformate in the Optical Analysis of Asymmetric Amino and Hydroxyl Compounds by Gas Chromatography
Walter R. Hearn and Jorge Medina-Castro	3980	Cyclization of N-Oxalyl-α-amino Acid Derivatives
Lawrence T. Sennello and C. J. Argoudelis	3983	Synthesis of Fat-Soluble Analogs of Pyridoxal 5'-Phosphate
K. T. Potts and G. S. Mattingly	3985	A Synthesis of Sempervirine
Available From The Ameri	can C	hemical Society
		1

ZHURNAL ORGANICHESKOI KHIMII Vol 33, No 10, 1968

ALFRED G. HORTMANN, DOUGLAS S. DANIEL, AND JACOB SCHAEFER

M. L. WOLFROM, ANNE BEATTIE, S. S. BHATTACHARJEE, AND G. G. PAREKH

JAN BAUMRUCKER, M. CALZADILLA, T. RODULFO, J. ARCHILA, J. ALBRIZZIO, AND A. J. PERAZA

THOMAS A. MONTZKA, TERRY L. PINDELL, AND JOHN D. MATISKELLA

FURN F. KNAPP AND HAROLD J. NICHOLAS

3988

Determination of the Configuration and Conformation of γ-Metasantonin

Reaction of 3,4-Dihydro-2H-pyran with Methyl α-D-Glucopyranoside

The Synthesis of 5-Phenyl-3-(substituted anilino)-2(5H)-furanones in Aqueous Solution

3993

Substituted Tartranilic Acids. A New Series of Resolving Acids

FURN F. KNAPP AND HAROLD J. NICHOLAS

3995

24ξ-Methyl-9,19-cyclolanostan-3β-yl Palmitate. A New Liquid Crystal

Available From The American Chemical Society

JOURNAL OF

APPLIED CHEMISTRY

of the USSR

A translation of Zhurnal Prikladnuj Khimii

Volume 41, Number 1

January, 1968

CONTENTS

	Engl./F	Russ.
Conversion of Fluosilicic Acid from Superphosphate Plants into Aluminum Fluoride and		
Active Silica — L. D. Skrylev	1	3
V. V. Pechkovskii	6	8
G. Ya. Samsonova, and G. A. Zharnikova	10	13
- V. Ya. Chernykh, V. M. Petrov, and N. D. Talanov	15	19
- B. F. Yudin	20	24
V. G. Borisov	29	33
Conditions — M. T. Dmitriev	34	39
V. R. Yankovskii, and A. I. Orekhova	38	43
G. A. Manakin	42	47
and E. S. Dubil'	46	52
V. G. Vodop'yanov, M. G. Ivanov, and L. V. Kuznetsova	52	58
Yu. P. Ballo, and R. I. Shipyatskaya	56	62
É. A. Morgen and N. A. Vlasov	60	66
N. I. Bogdanov	65	72
— A. A. Ravdel', V. N. Danilov, and T. N. Cherepnina	69	77
Phase — A. I. Rodionov and V. M. Radikovskii	⁷⁴ (C	onta)

CONTENTS

(continued)

	Engl./R	u88.
Kinetics of Chemical Nickel Plating in Alkaline Solution (with Single Use of the Solution)		
V. A. Zhikh and B. I. Esin	78	87
— A. I. Levin, A. F. Kondrat'ev, V. F. Lazarev, and A. A. Proskurnikov	87	97
F. Ya. Kharitonov	91	101
- S. V. Kushnir and A. I. Klimovich	96	106
Industry — N. G. Chen	100	110
I. S. Lavrov, and B. M. Rutman. Anodic Dissolution of Zinc Electrodes with Compact Electrolytic Zinc Deposits in Voltaic Cells with Alkaline Electrolyte — Z. P. Arkhangel'skaya, G. P. Andreeva, and	104	114
M. N. Mashevich	107	118
Phase and the Retention Volume — A. G. Popov	115	127
S. G. Mokrushin	123	137
M. N. Fadeeva	127	141
V. K. Tsyskovskii, and N. A. Ogurtsova	130	144
Chloromethylation of Pseudocumene — G. I. Golivets, M. M. Dashevskii, and I. V. Golivets Excess Thermodynamic Functions of the System Difluoromonochloromethane—Dibutyl	134	148
Phthalate — V. M. Seliverstov	139	153
— V. N. Dubchenko and V. I. Kovalenko	142	157
- V. N. Beresnev, N. A. Fermor, and N. I. Smirnov	146	160
Isolation of Isoquinoline from Coal-Tar Bases — A. P. Zaraiskii	153	168
the Reaction Liquid - N. S. Imyanitov and D. M. Rudkovskii	157	172
Sphagnum Moss Lignin - V. M. Reznikov and N. F. Sorokina	161	176
Esterification of Stearic Acid by Polyethylene Glycols - M. Kh. Gluzman, B. I. Dashevskaya,		
and G. M. Fridman	167	183
Standard 7854-55 — M. N. Kulikova, G. M. Strongin, and L. F. Khokhlova	171	187
BRIEF COMMUNICATIONS		
Phase Separation and Crystallization of Glasses in the System ZnO-Ai ₂ O ₃ -SiO ₂ -TiO ₂		
- V. V. Vargin and E. M. Milyukov Determination of the Precipitation pH and Activity Product of Lutecium Hydroxide	177	
- P. N. Kovalenko, L. T. Azhipa, and M. M. Evstifeev	181	198
L. N. Kalitina, and N. M. Sorokina	184	201
Electrochemically Indifferent Salts - V. Z. Grebenik and K. Ya. Grachev	187	203
Corrosion of Titanium in Hydrochloric Acid — E. S. Zhiganova and K. P. Batashev Use of Oscillographic Polarography for Investigation of the Corrosion of Copper in Chloride		206
Melts — I. I. Naryshkin, V. P. Yurkinskii, A. G. Morachevskii, and G. I. Kiseleva	194 (Cor	208 ntd)

ZHURNAL PRIKLADNOI KHIMII Vol 41, No 1, 1968

CONTENTS

(continued)

	Engl./	Russ.
Investigation of Equilibrium in the System (KOH+KCl) + Na (NaOH+NaCl) +K		
- N. I. Berdichevskii, A. G. Morachevskii, and A. F. Alabyshev	196	210
Resistance of Water-Repellent Organosilicon Coatings to the Action of Organic Solvents and Water — A. A. Pashchenko, E. A. Lasskaya, M. G. Voronkov, K. K. Karibaev, and		
V. T. Tishchenko	199	213
Sorption of Carbon Dioxide by the Carbonate Form of AV-17 Anion Exchange Resin		
- A. I. Yulikh and S. M. Arkhipov.	202	216
Removal of Acetylene and Difluoroethane from Vinyl Fluoride - Kh. U. Usmanov,		
A. A. Yul'chibaev, and G. S. Dorzhin	205	218
Migration of Double Bonds during Thermal Decomposition of Chloroalkanes - M. G. Rudin		
and A. E. Drabkiń.	207	220
Mechanism of Formation of Furfural during Pyrolysis of Pentosans - A. N. Kislitsyn,		
A. V. Sokolov, and É. V. Fomina	210	222
Oxidation of Gdov Shale in Acetic Acid - V. A. Proskuryakov, Z. V. Soloveichik, and		
V. I. Shuvalov	213	225
Polyanhydroglucuronates, Polymeric Biologically Active Substances - E. B. Dol'berg,	•	
B. G. Yasnitskii, and V. A. Ornyoroga	216	227
Preparation of Adducts of Modified Polyvinyl Alcohol Fibers and Organosilicon Compounds		
by Diene Synthesis - I. M. Seregina, L. A. Vol'f, V. V. Girdyuk, Yu. K. Kirilenko,		
S. N. Borisov, and N. G. Sviridova.	218	228
Inhibition by Glucose of the Oxidation of Sulfites in Dilute Acidified Solutions - S. A. Sapotnitskii.	220	229
Production of Phthalic Anhydride by Oxidation of o-Xylene from Petroleum		
- A. Kh. Sharipov, N. V. Ivanova, V. N. Shik, I. A. Kazakov, and A. A. Bolotnyi	223	232
Kinetics of Acid Decomposition of Cumene Hydroperoxide in a Flow Reactor		
- V. L. Antonovskii	225	233

The Russian press date (podpisano k pechati) of this issue was 1/16/1968. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

ZHURNAL TEKHNICHESKOI FIZIKI
EDITORIAL BOARD

N. P. Bogorodiskii
A. M. Bonch-Bruevich
S. E. Bresler
V. M. Dukel'skii
N. V. Fedorenko
V. E. Golant
G. A. Grinberg
A. P. Komar
B. P. Konstantinov
(Edilor)
Director,
Infe Physicotechnical Institute
Academy of Sciences of the USSR,
Leningrad
L. G. Loitsyanskii
G. V. Skornyakov
(Associate Editor)

Soviet Physics TECHNICAL PHYSICS

A Translation of "Zhurnal Tekhnicheskoi Fiziki"

(Russian Original Vol. 38, No. 4, pp. 581-780, April, 1968)

Vol. 13, No. 4, pp. 431-588

October, 1968

CONTENTS

			RUSS.
		PAGE	PAGE
Nonmagnetic Time-of-Flight Mass Spectrometers. V. A. Pavlenko, L. N. Ozerov,			
and A. É. Rafal'son	(R)	431	581
Turbulent Heating of Plasma by Annihilation of Oppositely Directed Magnetic			
Fields. M. V. Babykin	(T)	448	603
Instability of a Highly Inhomogeneous Plasma. N. S. Buchel'nikova			
and R. A. Salimov	(E)	455	611
Ion Diagnostics in a Deuterium Plasma Using Differential Neutron Spectra.	, ,		
S. P. Bogdanov and V. I. Volosov	(T)	460	618
A Method for Measuring the Temperature of a Deuterium Plasma from Its Flow			
Velocity, G. I. Goncharova and A. G. Aleksandrova	(E/T)	465	624
Switching of Discharge Gaps by Plasma Jets. É. A. Azizov and V. S. Komel'kov	(E)	468	628
Effect of Anode Orientation on the Characteristics of a Low-Pressure Discharge	• •		
in a Transverse Magnetic Field. N. A. Kervalishvili	(E)	476	637
Formation of Nanosecond Sparks in Static Breakdown of a Gap. G. A. Mesyats	• • •		
and G. S. Korshunov	(E/T)	483	646
Plasma Motion in a Radial Magnetic Field. R. V. Vasil'eva, K. V. Donskoi,	·-•		
and B. M. Dobarnin	(E)	490	653
The Effect of Striations on the Electron Energy Distribution in a Mercury-Krypton	••	•	•••
Mixture. E. P. Ostapchenko, O. N. Oreshak, and V. A. Stepanov	(E)	495	661
Radial Distribution of the End Current in a Magnetron. G. G. Sominskii	(E)	497	663
Neodymium-Activated Glass Laser with a Nonlinear Resonator.	,_,	•••	
A. M. Bonch-Bruevich, S. E. Potapov, and Ya. A. Imas	(E)	502	670
Variation in Reflectivity of Some Semiconductors Excited by Laser Light.	1-7		
A. M. Bonch-Bruevich, V. P. Kovalev, G. S. Romanov, Ya. A. Imas,			
and M. N. Libenson	(E/T)	507	677
Correction of the Spherical Aberration of Quadrupole Lenses by Means	,_, _,		•••
of Octupoles. T. Ya. Fishkova and S. Ya. Yavor	(T/E)	514	686
Spherical Aberration of a Stigmatic Doublet of Quadrupole Lenses (Rectangular	1-, -,		
Model). T. Ya. Fishkova, L. A. Baranova, and S. Ya. Yavor	(T)	520	694
Electron Cooling of the Cathode in Thermionic Converters. F. V. Kondrat'ev,	\-,	•••	***
G. V. Sinyutin, and V. F. Tikhonov	(E)	526	704
Theory of a Low-Voltage Arc in Cesium. III. B. Ya. Moizhes and F. G. Baksht	(T)	530	709
	·-/		
		(0	ontd)

Available From The American Institute of Physics, Inc. Vol 13, No 4, Oct 1968

ZHURNAL TEKHNICHESKOI FIZIKI Vol 38, No 4, 1968

		PAGE	RUSS. PAGE
Theory of the Sheath in a Low-Temperature Plasma. F. G. Baksht			
and V. Ya. Moizhes	(T)	540	724
É. Ya. Zandberg and A. Ya. Tontegode	(E)	550	737
and Yu. I. Belyakov	Œ)	554	742
V. V. Kantsel', S. I. Pavlov, and V. I. Rakhovskii	(E)	561	751
BRIEF COMMUNICATIONS			
Interferometric Control of Holographic Mountings. B. G. Turukhano			
and N. Turukhano	(E)	566	757
Sputtering of Porous Materials. T. P. Martynenko	(E)	568	759
Auger Mechanism for Characteristic Losses in Atomic Collisions.			
L. M. Kishinevskii and É. S. Parilis	(T/E)	570	760
Surface Ionization of Alkali-Halide Molecules on Platinum. É. Ya. Zandberg			
and A. Ya. Tontegode	(E)	573	763
Effect of Temperature on Second-Harmonic Generation in a KDP Crystal.			
V. D. Volosov, M. I. Divlekeev, and D. I. Perlov	(E)	576	766
Prolate Ellipsoid of Revolution in a Longitudinal Variable Magnetic Field.			
V. A. Bystrov	(T)	578	768
Instabilities of a Low-Pressure Discharge in a Transverse Magnetic Field.			
N. A. Kervalishvili	(E)	580	770
Radial Flow of a Low-Density Plasma in an H ₁₁ Mode. I. R. Gekker	(E)	583	773
Critical Current of an Electron Beam in a Plasma. M. D. Raizer,			
A. A. Rukhadze, and P. S. Strelkov	(T)	586	776

Available From The American Institute of Physics, Inc. Vol 13, No 4, Oct 1968

INDEX TO AUTHORS

This index does not include authors listed in the cover-to-cover tables of contents.

A		America Jana - America -	45
- A -		Arguedas, Antonio	45 44
Alanhamahada T T	71	Arient, Miroslav	64
Ababarchuk, I. L.	71	Arismendi, Rodney	45
Abraytis, R. I.	88	Arkad'yev, Ye.	12
Abreu, Pedro	44	Arkharov, V. I.	85
Adler, Yu. P.	76	Arnaud, Patrich	74
Afanas'yev, G. K.	75	Arnold, K.	74
Afanas'yev, V. F.	87	Aronson, A. Ya.	83
Ahidjo, El Hadj Almado		Artyushin, A.	48
Akhmedli, G. T.	116	Asinovskiy, Ye. I.	117
Akhmetzyanov, M. Kh.	104	Astashenkov, P. T.	110
Akhundov, E. B.	83	Atias, Guillermo	45
Akopyan, A.	87	Atsagortsyan, Z.	87
Akulinichev, I.	58	Atsuo Yamanouchi	113
Alamako, Kamara	33	Avdeyev, Ye. F.	127
Alayev, B. S.	61	Averbukh, M. Ye.	112
Aleksakhin, R. M.	61	Avgustinik, A. I.	70
Aleksandrov, A. Ya.	104	Avgustov, V.	9
Aleksandrov, Yu. N.	52	Avkhimovich, B. M.	117
Aleksandrovich,		Aydla, A.	116
Nikoley	78		
Alekseyev, P.	4	- B -	
Aleksic, Danilo	21	.,	
Alexandrescu, C.	20	Babic, Danilo	51
Aliyev, F.	127	Babichenko, D.	2
	55	Babicheva, Ye. V.	82
Aliyev, K. G.		_	40
Aliyev, M. I.	116	Bac Ha	13
Alizade, Z. A.	70 77	Bachinin, S.	
Alliot, Michel	33	Badin, J.	66
Altykhov, A.	3	Bakhman, N. N.	70
Alzheimer, A.	68	Bakhvalov, N. S.	101
Amalric, P.	64	Baklanov, O. G.	62
Amarhuu, O.	35	Bal, Mohamed El Bechir	33
Amirkhanova, D. Kh.	116	Balanin, B. A.	115
Amiro, I. Ya.	105	Balazs, Laszlo	74
Amosov, N. M.	76	Balin, B. A.	60
Anakioski, Dusan	22	Balint, Jozsef	18
Andjelkovic, Dusan	21	Balklav, A. Ye.	111
Andreyev, A. A.	106	Bam-Zelikovich, G. M.	122
Anghel, Gh.	20	Banyayev, N.	49
Anisimova, I. V.	86	Baranov, I. A.	103
Antonishin, N. V.	115	Baranov, S. A.	61
Antonov-Romanovskiy,		Barba, F.	98
V. V.	114	Bardenheur, F.	97
Antonovich, A. V.	121	Barinskiy, I. F.	63
Antropov, V. P.	86	Barkov, N. K.	83
Apanasewicz, S.	84	Baro, Abdoulaye	32
Apostol, Pavel	131	Baronov, O,	11
· · · · · · · · · · · · · · · · · · ·		The state of the s	

		Billeux, Francois	29
Baroyan, O. V.	57 26	Billoux, Francois	29
Bartha, Laszlo	26 75	Bilyk, G. P.	47
Bashilov, I. P.	75		8
Bashirov, R. I.	116	Blank, A.	25
Bashmakov, I. A.	79	Blecha, Jiri	127
Basov, N. G.	122		7
Bass, V. V.	109	Bogatyrev, P.	122
Bassetti, A.	89		126
Bastacka, Juliana	124		
Baturin, F.	7	Bogdanov, Z.	63
Baudel', D. A.	104		108
Bauer, F.	95	Bognar, Gyula	23
Baugnet-Mahieu, L.	65	Boguslawski, Miroslaw	18
Baulina, E. S.	61	Bohme, I.	97
Bayborodin, Yu. V.	117	Boi Lan	42
Baybulatov, R. B.	52	Boisswenger, H.	113
Bayidov, V. V.	85	Boke, O.	93
Baykov, V. S.	126	Bokovaya, M. M.	60
Bayrachenko, I. V.	110	Bolf, J.	124
Bazant, Z. P.	95	Bol'shev, L. N.	59
Bebkovich, Ya. K.	115	Borcan, Gheorghe	19
Bece, P.	90	Bordeianu, N.	84
Becker, II.	107	Borisenko, V. I.	119
Bedcher, F. S.	83	Borisov, T.	129
Beisswenger, II.	113		103
	111	Bornycheva, V.	4
Bek, S. S.	89	Boroday, K.	13
Bellot, J.	3	Borodkin, I.	49
Belobzhetskiy, I.	47	Botvin, A.	9
Belous, Yu. F.	121	Bouabid, Abderrashman	31
Belov, P. V.		Bourguiba, Habib	32
Belozerskiy, A. N.	55 57	Boyko, B. B.	122
Beltadze, T. G.	53		119
Belyakova, M. I.	60 70	Boyko, P. N.	53
Belyayev, A. F.	70 	Brandejs, S.	92
Belyayev, V. P.	53	Brandis, H.	131
Benedikt, V.	81	Brates, Teodor	72
Beranger, G.	89	Bratchenko, B.	88
Bercovici, M.	20	Braynin, Ye. Yu.	18
Bercovici, Martin	20	Brcoska, S.	23
Berend, Ivan	18	Bregel, E.	
Berezkin, A. N.	109	Bresler, V. M.	62
Berezkina, M. K.	109	Bretschneider, Harry	17
Berger, Wolfgang	16	Breznik, Dusan	28
Bernhard, W.	64	Bromberg, A. V.	61
Bertenjew, Georgi M.	95	Brun'ko, V.	48
Bertin, Jacques	73	Brums, F.	65
Bertume, I.	90	Brusentsov, L. V.	77
Beshkarev, N. A.	12	Brychta, O.	81
Beuler, E.	96	Brzoska, Stanislaw	19
Beutel, II.	93	Buch, A.	90
Beyer, L.	71	Budlovskiy, Z.	124
Beyer, U.	25	Budnikov, P. P.	121
Biller, H.	97	Bugay, N. V.	83
Billeter, J. F.	41	Buhler, H. E.	91

	40	Ch'en Lu'Kao	63
Bui Thi Lien	42	N. C.	10
Bul O. B.	103	Cherednichenko	106
Bulaceanu, R.	126		88
Buljevac, Mladen	22	Cherepanov, A. M.	
Bulgaru, M.	27		[0]
Bunin, K. V.	58		5
Burbach, J.	95		118
Burchenko, P. Ya.	114	Chevillard, L.	65
Burian, Walter	17	Chien Thang	39
Burok, V. S.	77	3	105
Burstlein, Ye.	94		123
Burstein, Uzi	34	Chirkov, M. K.	77
Buryndin, R.	1	Chirovici,	
Bustamente, Jose A.	46	George-Radu	27
Buzek, Z.	89	Chisu, A.	100
Buzunov, R.	2	Chlonecki, Jerzy	18
Bykhovskiy, B.	8	Cho On-hwan	35
Bykov, A.	7	Choga Kazuya	36
Bykov, N. N.	127	Chon Ch'ang-yol	37
Bykov, V. L.	111	Chon Ch'u-ho	36
Bykov, V. S.	106	Chon Ki-hong	37
Bykovskiy, Yu. A.	112	Chu Chong-hui	38
Byrtus, F.	94		124
Bystrova, B. G.	114	Chuburkov, Yu. T.	70
bystrova, b. G.	114	Chuchmarev, S. K.	85
- C -		Chumakov, V.	12
- C -		Ciolan, Ioan L.	19
Common Coomes D	00	Cioranu, Gh.	27
Campos-Soares, R.	90	Ciulea, O.	20
Carafoli, E.	126	The state of the s	94
Carius, C.	98	Class, I.	64
Carrillo, Santiago	30	Classens, II.	24
Cartellieri	48	Codranu, Aurel	28
Castellano II, Raul	45	Colakovic, Bozidar	
Castelli, M.	98	Compeanu, Alexandru	24
Castro, Julio	44	Constantinescu, Miron	27
Cauchy, Augustin	125	Cordova-Claure, Ted	44
Caudron,		Courtois, J.	29
Jean-Philippe	31	Cristescu, Aurel	24
Celikovsky, Karel	124	Csanky, L.	82
Cerma, A.	49	Curelaru, L.	84
Cernot, Mihai	24	Curgus, Mile	22
Cespiro, Z.	71	Curro, S.	65
Cezar, Ioana	82	Cvijic, Nikola	108
Chang Chao-Yang	81	Czeitler, Sandor	17
Chang Ch'ing-Yu	102	•	
Chang Han-Hsin	123	- D -	
Chang Kuk-Ch'an	35		
Chang Tsun-K'uei	124	Dadykin, V. P.	58
Chao Jen-Yang	130	Daeves, K.	96
Chatagnon, C.	64	Damdindorj, G.	35
Chaykovskiy, Yu. V.	61	Damdinjah, L.	38
Chekalin, E. K.	77	Damsker, D.	102
Chekalin, V. V.	117	Dancoisne, P.	90
· · · · · · · · · · · · · · · · · · ·	18	Dang Nghiem Van	42
Chelinski, Ryszard	40	accessed in Charmana and a course	

Danicic, Predrag	108	Dolginov, A. Z.	52
Danilevskiy, V. V.	72	Dolgosheins, A.	105
Danoyan, B.	105	Dolyatovskiy, V. A.	59, 7
Darenskava, N. G.	57	Doman, N. G.	55
Darg, V. A.	61	Dorfman, A. Sh.	115
Dauby, P.	81	Doroshenko, P.	48
Dautzenherg, M.	95	Doshchinskiy, G. A.	116
Davalos, Fernando G.	108	Dostalik, M.	110
Davidovich, B.	7	Dovgopol, V.	54
Davydchenkov, V.	54	Dovgyalio, A. M.	78
Davydova, I. N.	118	Doynikov, B. D.	120
Daynovskaya, K.	13	Drabkin, L. M.	106
Daynovskiy, A.	13	Drachter, R.	67
de Carolis, Antonio	33	Dragovic, Vasilije	108
De Feo, V.	69	Draws, Thomas	98
Degen, Imre	17	Drigo, Yu. A.	60
Degossely, If.	64	Drouzy, M.	90
Degtyarev, S. F.	113	Drumaup, Marc	29
Dekhovich, D. A.	83	Druzhinina, N. K.	70
De Laffolie, H.	125	Dubi, Franz	29
Delahaya, Victor	30	Dubkov, V.	9
Delbarre, F.	65	Dubnitskaya, Z. I.	63
de Leiris, H.	90	Dubois, Paul	45
Delle, W.	92	Dubsek, F.	107
Demberel, Ts.	38	Dudek, N. B.	95
Dement'yev, I. V.	63	Dudko, D. Ya.	123
Demin, G. I.	117	Dudorov, H.	2
Denchev, Andrey	15	Dudzinski, Wladyslaw	19
Deordiyev, N. T.	86	Dugersuren, Ts.	38
Derbentsev, D. A.	119	Duliniez, Slawomir	82
Derevyanchenko, V.	3	Duma, Hasan	26
Deribas, A. A.	85	Dushin, L. A.	115
Deshkevich, M.	5	Duvancic, Milan	22
Devin, R.	66	Dvorak, R.	124
Deych, A. N.	51	D'yachkov, S. G.	101
Diaconescu, P.	28	Dyban, Ye. P.	83
Diaconescu, Paul	24	Dybenko, N.	1
Diaconescu, R.	24, 131	Dyner, Mireslaw	19
Diagne, Roland	50	Dynin, I.	11
Diaz Arguelles, Raul	46	Dzhus, V. Ye.	73
Dickel, F.	23	Dzyza, A.	11
Dieu Binh	39	bayau, A.	11
Dimitrov, Dimitur Y.	53	- E -	
Ding, A.	71	- 1	
Ditges, G.	91	Ebert, D.	16
Divnogortsev, N.	1	Edstrom, J. O.	97
Divari, N. B.	51	Elibert, S. S.	
Djokie, Vucic	22	Elozo, V. P.	101
Dmitriyev, A. Ye.	14		62
Dobes, F.	25	Elsner, J.	112
Dobrokhotov, O.	6	Emanuel, N. M.	70 20
Dobrowolskij, A. G.	95	Enache, M.	20
Dokuchayev, P. P.	72	Endre, Barabas	131
Doladugins, V. S.	87	Entin, I. I.	72 50
Dolenko, A.	48	Erdei, Sandor	50
n	70	Erdey-Gruz, Tibor	131

Ertel, L. Ia. 5 Freres, Laroche 91 Espo, N. 124 Frings, W. 97 Espor, F. 95 Frishnan, F. 116 Etzold, G. 66 Fritsch, G. 94 Eugster, C. II. 67 Fructus, X. R. 64 Everts, Wolf 68 Fundora, Orlando 46 Eyenga, Louis-Paul 31 Fung Si-chi 123 Exner, II. E. 95 Furke, P. 96 Exner, III. E. 95 Furke, P. 96 Fagiolo, E. 68 Fagiolo, F. 68 Fagn, V. S. 75, 122 Gambardella, A. 68 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faber, A. 89 Ganzayeva, S. A. 77 Faynberg, Ya. B. 115 Ganzayeva, S. A. 77 Fedoreheko, A. M. 123 Ganzen, V. A. 58 Fedorishcheva, A. 2 Gaponov, M. A. 87 Fedorov, V. A. 61 Garraud, Rene 29 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, V. A. 61 Garraud, Rene 29 Fedorov, V. A. 118 Gazenko, O. G. 57 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Gela, Gabor 18 Feller, H. G. 98 Gelfand, I. M. 100 Ferenbac, I. 27 Gelius, Rolf 71 Ferents, N. K. 75 Gelmetti, P. 68 Ferraz, J. de Oliveira 99 Georgadze, M. 54 Ferrare, A. 90 Georgadze, M. 54 Ferrier, A. 90 Georgadze, M. 54 Feygel'son, V. M. 15 Gerlack, II. 91 Fingenov, Ya. 105 Germanovich, V. 11 Fingeres, Leo 28 Germanovich, V. 11 Fingerenov, Ya. 105 Gershunov, Ye. M. 115 Fingeres, Leo 28 Germanovich, V. 11 Fingeres, Leo 38 Germanovich, V. 11 Fingeres, Leo 48 Germanovich, V. 11 Fingeres, Leo 58 Germanovich, V. 11 Fingeres, Leo 66 Germanovich, V. 11 Fingeres, Leo 67 Gershunov, Ye. M. 117 Fingeres, Leo 68 Germanovich, V. 117 Fingeres, Leo 69 Germanovich, V. 11 Fingeres, Leo 60 Germanovich, V. 11 Fingeres, Leo 61 Germanovich, V. 11 Fingeres, Leo 62 Germanovich, V. 11 Fingeres, Leo 63 Germanovich, V. 11 Fingeres, Leo 64 Germanovich, V. 11 Fingeres, Leo 65 Germanovich, V. 11 Fingeres, Leo 66 Germanovich, V. 11	Enkon A	97		Frankfurt, O. S.	62
Espe, W. 124					91
Exper, F. 95 Etzold, G. 66 Etzold, G. 66 Eugster, C. H. 67 Everts, Molf 68 Eyenga, Louis-Paul 31 Exner, H. E. 95 Furmaniakowa, M. 99 Fagiolo, E. 68 Faqihi, Mehdi 34 Farkas, Janos 131 Fastovskaya, E. I. 59 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faynberg, Ya. B. 115 Faynberg, Ya. B. 115 Fedchenko, A. M. 123 Fedorchenko, A. M. 123 Fedorov, V. A. 61 Fedorov, V. A. 61 Fedorov, V. A. 61 Fedorov, V. A. 61 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorus, A. G. 70 Fedosov, O. P. 88 Fedottstov, V. N. 109 Fedotov, Ya. A. 118 Fedorov, Va. A. 118 Feller, H. G. 98 Fedottstov, V. N. 109 Ferenbac, I. 27 Fernandez, Jorge 43 Gerraz, J. de Oliveira 99 Ferraz, J. de Oliveira 99 Ferraz, J. de Oliveira 99 Ferrar, A. Fesechko, V. A. 77 Feysel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkel', V. M. 87 Finkel', V. M. 87 Finkel, V. M. 87 Finkel, V. M. 87 Finkel, V. M. 87 Finkel, V. M. 87 Fireis, Maria 52 Fischer, W. A. 91 Fisher, Ye. 6 Fiorent'yev, L. 48 Finchely, V. 2 Fomin, N. A. 47 Fincican, N. A. 77 Fomin, N. A. 47 Fincican, N. A. 77 Fomin, N. A. 47 Fincican, N. A. 77 Fominhov, V. 2 Fomin, N. A. 47 Fincican, N. A. 77 Fominhov, V. 2 Fominhov, V. A. 51 Fomichev, A. Ye. 105 Fominhov, V. A. 61 Fomichev, A. 79 Fomin, N. A. 47 Fincican, N. A. 77 Fomin, N. A. 47 Fincican, N. A. 47 Fincican, N. A. 77 Fomin, N. A. 47 Fincican, N. A. 77 Fincican, N. A. 77 Fomin, N. A. 47 Fincican, N. A. 77 Fomin, N. A. 47 Fincican, N. A. 77 Fincican, N. A. 77 Fincican,				• • • • • • • • • • • • • • • • • • •	97
Etzold, G. 66 Eugster, C. H. 67 Eugster, Wolf 68 Everts, Wolf 68 Fundora, P. 96 Furmaniakowa, M. 99 Furtseva, Ye. 14 Faber, A. 89 Furtseva, Ye. 15 Gandamovich, S. Ia. 63 Gaidamovich, S. Ia. 63 Gaidamovich, S. Ia. 63 Gaidamovich, S. Ia. 63 Gambardella, A. 68 Gaf	•				116
Eugster, C. H. 67 Everts, Wolf 68 Eyenga, Louis-Paul 31 Exner, H. E. 95 Funke, P. 96 Furmaniakowa, M. 99 Furtseva, Ye. 14 Faber, A. 89 Fagiolo, E. 68 Faqihi, Mehdi 34 Farkas, Janos 131 Fastovskaya, E. I. 59 Fastovskaya, E. I. 59 Fastovskaya, E. I. 59 Faynberg, Ya. B. 115 Faynberg, Ya. B. 115 Fedchenko 86 Fedorishcheva, A. 2 Fedorishcheva, A. 2 Fedorov, R. M. 116 Fedorov, V. A. 61 Fedorov, V. A. 61 Fedorov, V. A. 61 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorus, A. G. 70 Fedosov, O. P. 88 Fedotov, Ya. A. 118 Feder, H. G. 98 Fedotov, Ya. A. 118 Fedotov, Ya. A. 118 Fedotov, Ya. A. 118 Ferents, N. K. 75 Fernandez, Jorge 43 Ferraz, J. de Oliveira 99 Ferrier, A. 90 Ferriers, Leo Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finnogenov, Ta. 105 Firica, M. 70 Fogel, I. M. 77 Fogel, I. M. 77 Finnogenov, Ya. 105 Firica, M. 78 Firicia, M. 79 Firicia, M. 79 Forent, W. A. 91 Fisher, Ye. 6 Filorent'yev, L. 48 Fisher, Ye. 6 Filorent'yev, L. 48 Finchev, V. S. 121 Fomichev, V. Ye. 105 Fomichev, V. S. 121 Fomichev, V. S. 127 Fomin, N. A. 47 Fittel' 200 F					94
Everts, Wolf Eyenga, Louis-Paul Exert, H. E. Po Fagiolo, E. Fader, A. Fagiolo, E. Faqihi, Mehdi Fatros, Janos Fatrovskaya, E. I. Fayn, V. S. Fedorchenko, A. Fedorchenko, A. Fedorishcheva, A. Fedorov, V. A. Fedorov, V. D. Fedorov, V. D. Fedorov, V. D. Fedorov, V. D. Fedorov, V. A. Fedorov, V. A. Fedorov, V. A. Fedorov, V. N. Fernandez, Jorge Ferrat, J. de Oliveira Ferrier, A. Ferrier, A. Ferrier, A. Feschko, V. A. Frinkel, V. M. Finkel, V. M. Finkel, V. M. Finker, V. Finnes, Maria Firata, A. Firata, A. Firata, A. Fedorov, V. Fomin, N. A. Fomichev, V. Fomin, N. Formale, P. Fermandayer, M. Finkel, V. Fomin, N. Formale, V. Fromin, N. Formale, V. Fromin, N. Formale, V. Fromin, N. Formale, V. Fromin, N. Fromichev, V. Fomin, N. Fromichev, V. Fromin, N. Fromichev, V. Fromin, N. Fromichev, V. Fromin, N. Fromichev, V. Fromin, N. Fromichever, V. Fromin,	•				64
Eyenga, Louis-Paul 31 Exner, H. E. 95 Exner, A. 89 Furtseva, Ye. 14 Faber, A. 89 Furtseva, Ye. 14 Faber, A. 89 Furtseva, Ye. 14 Faber, A. 89 Furtseva, Ye. 14 Fagiolo, E. 68 Faqihi, Mehdi 34 Farkas, Janos 131 Gaidamovich, S. Ia. 63 Farkas, Janos 131 Gaidamovich, S. Ia. 63 Farkas, Janos 131 Gaidamovich, S. Ia. 63 Gambardella, A. 68 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Feyenberg, Ya. B. 115 Ganzayeva, S. A. 77 Feyedorchenko, A. 123 Ganzen, V. A. 58 Fedorochenko, A. 123 Ganzen, V. A. 58 Fedorochenko, A. 16 Fedorov, R. M. 116 Fedorov, V. A. 61 Fedorov, V. A. 61 Garraud, Rene 29 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, A. G. 70 Gazenko, O. G. 57 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Feller, H. G. 98 Feoltistov, V. N. 109 Gelfand, I. M. 100 Ferenbac, I. 27 Gelius, Rolf 71 Ferents, N. K. 75 Gelmetti, P. 68 Ferrary, J. de Oliveira 99 Georgadze, M. 54 Ferrary, V. M. 15 Gerlack, H. 91 Fingeres, Leo 28 Ferrary, V. M. 15 Gerlack, H. 91 Fingeres, Leo 28 Ferrary, V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Germanovich, V. 11 Finogenov, Ya. 105 Germanovich, V. 11 Finogenov, Ya. 105 Germanovich, V. M. 15 Firla, A. P. 82 Gheorghiu, Al. 131 Firla, A. P. 82 Gheorghiu, Vastle 19 Firneris, Maria 52 Giang Nam Firicica, M. 27 Finogenov, Ya. 105 Giang Nam Fisher, Ye. 6 Gianni, E. 61 Filorent'yev, L. 48 Gilinskiy, S. M. 11 Fomichev, A. Ye. 105 Giandoyev, Kh. 11 Fomichev, V. 2 Giosan, N. S. 12 Giosan, N. S. 12 Fomichev, V. 2 Giosan, N. S. 12 Giosan, N. S. 12 Fomichev, V. 2 Giosan, N. S. 12 Giosan, N. S. 12 Fomichev, V. 2 Giosan, N. 16 Firicica, M. 77 Forgel, I. H. 79 Formin, N. A. 47 Firicical, M. 77 Firicical, M. 77 Forgel, I. M. 78 Firicical, M. 78 Firicic					46
Exner, H. E. 95 Exner, H. E. 95 Funke, P. 96 Furmaniakowa, M. 99 Furtseva, Ye. 14 Faber, A. 89 Fagiolo, E. 68 Faqihi, Mehdi 34 Farkas, Janos 131 Fastovskaya, E. I. 59 Fayn, V. S. 75, 122 Gambardella, A. 68 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faynberg, Ya. B. 115 Ganzayeva, S. A. 77 Fedorchenko, A. M. 123 Fedorov, R. M. 116 Garcia, Guillermo Adedrov, V. A. 61 Garraud, Rene 29 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, V. A. 61 Fedorov, V. A. 118 Geck, H. G. 98 Fedotov, Ya. A. 118 Felter, H. G. 98 Gela, Gabor 18 Fernadez, Jorge 43 Ferraz, J. de Oliveira 99 Ferrare, Leo 28 Filipenko, V. A. 87 Feggel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Germanovich, V. 115 Figueres, Leo 28 Filipenko, V. N. 87 Fernadez, Jonnel 27 Fernadez, Lo Gershunov, Ye. M. 117 Finkus, Daniel 27 Fincentino, M. 66 Gershunov, Ye. M. 127 Finkes, Daniel 27 Gershunov, Ye. M. 127 Fincentino, M. 66 Gershunov, Ye. M. 127 Fincentino, M. 66 Gershunov, Ye. M. 127 Fireneis, Maria 52 Giambelli, G. 66 Filorent'yev, L. 48 Gilinskiy, S. M. 117 Fomichev, A. Ye. 105 Giosan, N. 5 Fomichev, V. 2 Giosan, N. 5 Fomichev, V. 2 Giosan, N. 5 Fomichev, V. 2 Giosan, N. 5 Fomin, N. A. 47 Gitel'zon, I. I.					123
Faber, A. 89 Fagiolo, E. 68 Faqilo, E. 68 Farkas, Janos 131 Fastovskaya, E. I. 59 Fayn, V. S. 75, 122 Gambardella, A. 68 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faynberg, Ya. B. 115 Fedchenko 86 Fedorchenko, A. M. 123 Fedorchenko, A. M. 123 Fedorov, R. M. 116 Fedorov, V. A. 61 Fedorov, V. A. 61 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Fedors, A. 6. 70 Fedosov, O. P. 88 Fedoristov, V. N. 109 Ferenbac, I. 27 Ferents, N. K. 75 Ferents, N. K. 75 Ferraz, J. de Oliveira 99 Ferrier, A. 90 Ferrier, A. 90 Ferrier, A. 90 Ferrier, A. 90 Ferriers, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finnes, Maria Fisher, Ye. 6 Filorent'yev, L. 48 Gilinskiy, S. M. 11 Fomichev, A. Ye. 105 Fomin, N. A. 47 Gitel'zon, I. I. 66 Fomichev, V. A. 91 Fomichev, V. 2 Giosan, N. 55 Fomin, N. A. 47 Gitel'zon, I. I. 66					96
Faber, A. 89 - G - Fagiolo, E. 68 Faqihi, Mehdi 34 Gaft, L. 78 Farkas, Janos 131 Gaidamovich, S. Ia. 63 Fastovskaya, E. I. 59 Gambardella, A. 68 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faynberg, Ya. B. 115 Gamzayeva, S. A. 77 Fedchenko 86 Gan'shin, V. N. 72 Fedorishcheva, A. 2 Gaponov, M. A. 87 Fedorov, R. M. 116 Garcia, Guillermo 44 Fedorov, V. A. 61 Garraud, Rene 29 Fedorus, A. G. 70 Gazenko, O. G. 57 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Felter, H. G. 98 Gelan, Gabor 18 Felter, H. G. 98 Gelfand, I. M. 100 Ferenbac, I. 27 Gelius, Rolf 71 Ferents, N. K. 75 Gelmetti, P. 68 Ferraz, J. de Oliveira 99 Georgadze, M. 54 Ferraret, A. 90 Georgiova, Eva Gerrarovich, V. 15 Figueres, Leo 28 Germanovich, V. 17 Finkel', V. M. 87 Germanovich, V. 17 Finkel', V. M. 87 Germogenova, T. A. 12 Finkel', V. M. 87 Gersenova, T. A. 12 Fincenov, Ya. A. 91 Giang Nam 41 Firicica, M. 27 Gheorghiu, Vasile 15 Fischer, W. A. 91 Giang Nam 47 Fischer, W. A. 91 Giang Nam 47 Fischer, V. A. 92 Giosan, N. 51 Fomichev, A. Ye. 105 Gineskiy, A. S. 12 Fomichev, V. 2 Giosan, N. 55 Fomin, N. A. 47 Gitel'zon, I. I. 66	exher, n. c.	33			99
Faber, A. 89 - G - Fagiolo, E. 68 Faqihi, Mehdi 34 Gaft, L. 78 Farkas, Janos 131 Gaidamovich, S. Ia. 63 Fastovskaya, E. I. 59 Gambardella, A. 68 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faynberg, Ya. B. 115 Ganzayeva, S. A. 77 Fedchenko A. M. 123 Ganzen, V. A. 58 Fedorishcheva, A. 2 Gaponov, M. A. 87 Fedorov, R. M. 116 Garraud, Rene 29 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, A. G. 70 Gazenko, O. G. 57 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Feller, H. G. 98 Gela, Gabor 18 Feller, H. G. 98 Gela, Gabor 18 Feoktistov, V. N. 109 Gelfand, I. M. 100 Ferenbac, I. 27 Gelius, Rolf 71 Ferents, N. K. 75 Gelmetti, P. 68 Ferraz, J. de Oliveira 99 Georgadze, M. 54 Ferrare, A. 77 Gerhard, Bahr 71 Fesechko, V. A. 77 Gerhard, Bahr 71 Fesechko, V. A. 77 Gerhard, Bahr 71 Fespel'son, V. M. 15 Germanovich, V. 11 Fingueres, Leo 28 Germanovich, V. 11 Finkel', V. M. 87 Germanovich, V. 11 Finkel', V. M. 87 Germanovich, V. 11 Fincentino, M. 66 Germanov, Ye. M. 12 Fincentino, M. 66 Germanov, Ye. M. 12 Firneicica, M. 27 Gheorghiu, Al. 13 Fischer, W. A. 91 Glanni, E. Gianni, E. Fireis, Maria 52 Glambelli, G. 66 Fischer, W. A. 91 Gianni, E. 67 Fomichev, A. Ye. 105 Giosan, N. 50 Fomin, N. A. 47 Gitel'zon, I. I. 66	_ F _				14
Fagiolo, E. 68 Faqihi, Mehdi 34 Farkas, Janos 131 Gaidamovich, S. Ia. 63 Fastovskaya, E. I. 59 Gambardella, A. 68 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faynberg, Ya. B. 115 Ganzayeva, S. A. 77 Fedchenko 86 Gan'shin, V. N. 72 Fedorchenko, A. M. 123 Ganzen, V. A. 58 Fedorov, R. M. 116 Garcia, Guillermo 44 Fedorov, V. A. 61 Garraud, Rene 29 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorus, A. G. 70 Gazenko, O. G. 57 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Feller, H. G. 98 Gela, Gabor 18 Feoktistov, V. N. 109 Gelfand, I. M. 100 Ferenbac, I. 27 Gelius, Rolf 71 Ferents, N. K. 75 Gelmetti, P. 68 Ferrar, J. de Oliveira 99 Georgadze, M. 54 Ferrar, J. de Oliveira 99 Georgadze, M. 54 Ferrar, Leo 28 Germanovich, V. 15 Figueres, Leo 28 Germanovich, V. 17 Finogenov, Ya. 105 Gershaud, Bahr 71 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Gershunov, Ye. M. 105 Figueres, Leo 28 Germanovich, V. M. 117 Finogenov, Ya. 105 Gershunov, Ye. M. 127 Finogenov, Ya. 105 Gershunov, Ye. M. 127 Firicica, M. 27 Gershunov, Ye. M. 137 Gershunov, Ye. M. 137 Firicica, M. 27 Gershunov, Ye. M. 137 Firicica, M. 27 Giambelli, G. 66 Giambelli, G. 67 Giambelli, A. 27 Giambelli, G. 67 Giambelli, M. 20 Gia	• •			•	
Fagiolo, E. 68 Faqihi, Mehdi 34 Farkas, Janos 131 Gaidamovich, S. Ia. 63 Farkas, Janos 131 Gaidamovich, S. Ia. 63 Fastovskaya, E. I. 59 Gambardella, A. 68 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faynberg, Ya. B. 115 Ganzayeva, S. A. 77 Fedchenko 86 Gan'shin, V. N. 72 Fedorishcheva, A. 2 Gaponov, M. A. 87 Fedorov, R. M. 116 Garraud, Rene 29 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, V. A. 61 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Feolorishcheva, A. 127 Gelier, H. G. 98 Gelfand, I. M. 100 Ferenbac, I. 27 Gelius, Rolf Ferraz, J. de Oliveira 99 Gerradze, M. 54 Ferrier, A. 90 Gerradze, M. 54 Ferrier, A. 90 Feschko, V. A. 77 Gerhard, Bahr 71 Figueres, Leo 28 Germanovich, V. 11 Figueres, Leo 28 Germanovich, V. 11 Finogenov, Ya. 105 Germanovich, V. 11 Finogenov, Ya. 105 Germanovich, V. 11 Finogenov, Ya. 105 Gershunov, Ye. M. 127 Firicica, M. 27 Gershunov, Ye. M. 127 Gershunov, Ye. M. 127 Firicica, M. 27 Gershunov, Ye. M. 127 Gershunov, Ye. M. 127 Firicica, M. 27 Gershunov, Ye. M. 127 Gershunov, Ye. M. 127 Firicica, M. 27 Gershunov, Ye. M. 127 Gershunov, Ye. M. 127 Gershunov, Ye. M. 127 Gershunov, Ye. M. 127 Gershunov, Ye. M. 128 Firicica, M. 27 Germanovich, V. 129 Giambelli, G. 66 Giambelli, G. 66 Giambelli, G. 67 Giambel	Faber. A.	89		- G -	
Faqihi, Mehdi 34 Farkas, Janos 131 Gaidamovich, S. Ia. 68 Fastovskaya, E. I. 59 Gambardella, A. 68 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faynberg, Ya. B. 115 Ganzayeva, S. A. 77 Fedchenko 86 Gan'shin, V. N. 72 Fedorishcheva, A. 2 Gaponov, M. A. 87 Fedorov, R. M. 116 Garcia, Guillermo 4A Fedorov, V. A. 61 Garraud, Rene 29 Fedorus, A. G. 70 Gazenko, O. G. 57 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Feller, H. G. 98 Gela, Gabor 18 Feller, H. G. 98 Gela, Gabor 18 Ferents, N. K. 75 Gelmetti, P. 68 Ferraz, J. de Oliveira 99 Gerracy, Jorge 43 Gentzsch, G. 91 Ferrier, A. 90 Gerrade, H. 90 Ferrier, A. 90 Ferses, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Girlinskiy, S. M. 117 Fisher, Ye. 66 Fisher, W. A. 91 Fisher, Ye. 67 Fishick, V. A. 91 Fisher, Ye. 67 Fionichev, V. A. 92 Girandove, V. M. 191 Girnadevev, Kh. 191 Fomichev, V. 2 Giosan, N. 5 Fionichev, V. 2 Giosan, N. 6 Girel'zon, I. I.		68			
Farkas, Janos 131 Gaidamovich, S. 1a. 63 Fastovskaya, E. I. 59 Gambardella, A. 68 Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faynberg, Ya. B. 115 Gamzayeva, S. A. 77 Fedchenko 86 Gan'shin, V. N. 72 Fedorchenko, A. M. 123 Ganzen, V. A. 58 Fedorishcheva, A. 2 Gaponov, M. A. 87 Fedorov, R. M. 116 Garcia, Guillermo 44 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorus, A. G. 70 Gazenko, O. G. 57 Fedorus, A. G. 70 Gazenko, O. G. 57 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Feller, H. G. 98 Gela, Gabor 18 Feller, H. G. 98 Gela, Gabor 18 Feoktistov, V. N. 109 Gelfand, I. M. 100 Ferenbac, I. 27 Gelius, Rolf 71 Ferents, N. K. 75 Gelmetti, P. 68 Ferraz, J. de Oliveira 99 Georgadze, M. 54 Ferrar, A. 90 Georgadze, M. 54 Feygel'son, V. M. 15 Gerlack, H. 91 Fingeres, Leo 28 Germanovich, V. 11 Fingeres, Leo 28 Germanovich, V. 11 Finngenov, Ya. 105 Germanovich, V. 11 Finngenov, Ya. 105 Germanovich, V. 11 Finngenov, Ya. 105 Germanovich, V. 11 Firicica, M. 66 Germanovich, V. M. 15 Firicica, M. 27 Germanovich, V. 11 Firicica, M. 31 Firicica, M. 4. 91 Giamp Nam Fisher, Ye. 6 Gianni, E. 66 Florent'yev, L. 48 Gilinskiy, S. M. 11 Fonichev, A. Ye. 105 Fomichev, V. 2 Giosan, N. 5 Fomichev, V. 2 Fomin, N. A. 47 Gitel'zon, I. I. 66		34			
Fastovskaya, E. I. 59 Fayn, V. S. 75, 122 Gambardella, A. 75 Faynberg, Ya. B. 115 Gamzayeva, S. A. 77 Fedchenko 86 Fedorishcheva, A. 2 Fedorishcheva, A. 2 Fedorov, R. M. 116 Fedorov, V. D. 55, 56 Fedorus, A. G. 70 Fedosov, O. P. 88 Fedotvo, Ya. A. 118 Fedorov, V. N. 109 Feller, H. G. 98 Feoktistov, V. N. 109 Ferenbac, I. 27 Ferenbac, Jorge 43 Ferraz, J. de Oliveira 99 Ferraz, J. de Oliveira 99 Ferraz, J. de Oliveira 99 Ferraz, J. de Oliveira 90 Fersechko, V. A. 77 Feyeel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkel', V. M. 87 Finkel', V. M. 87 Firicica, M. Firicica, M. 105 Firicica, M. 105 Firicica, M. 116 Firicica, M. 117 Firier, Ye. 6 Filorent'yev, L. 48 Filipenko, V. A. 91 Fincel, W. A. 91 Fincel, W. A. 91 Fincell, M. A. 91 Fisher, Ye. 6 Filorent'yev, L. 48 Fomichev, V. R. 105 Fomichev, V. R. 2 Fomichev, V. R. 2 Fomichev, V. R. 105 Fomichev, V. R. 105 Fomichev, V. R. 2 Fomichev, V. R. 105 Fomichev, V. R. 2 Fomichev, V. R. 105 Fomichev, V. R. 105 Fomichev, V. R. 105 Fomichev, V. R. 2 Fomichev, V. 2 Fomin, N. A. 47 Foilorelizon, I. I. 66 Fortelizon, I. I. 66 Fortelizon, I. I. 66 Fortelizon, N. A. 91 Fomichev, V. 2 Fomin, N. A. 47 Foilorelizon, I. I. 66 Fortelizon, I. I. 67 Fortelizon, I. I. 67 For		131		Gaidamovich, S. Ia.	
Fayn, V. S. 75, 122 Gambaryan, N. P. 71 Faynberg, Ya. B. 115 Gamzayeva, S. A. 77 Fedchenko 86 Gan'shin, V. N. 72 Fedorchenko, A. M. 123 Ganzen, V. A. 58 Fedorishcheva, A. 2 Gaponov, M. A. 87 Fedorov, R. M. 116 Garcia, Guillermo 44 Fedorov, V. A. 61 Garaud, Rene 29 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Feller, H. G. 98 Gela, Gabor 18 Feller, H. G. 98 Gela, Gabor 18 Feoktistov, V. N. 109 Gelfand, I. M. 100 Ferenbac, I. 27 Gelius, Rolf 71 Fernandez, Jorge 43 Georgadze, M. 54 Fernandez, Jorge 43 Georgadze, M. 54 Fersechko, V. A. 77 Gerhard, Bahr 71 Fessechko, V. A. 77 Gerhard, Bahr 71 Figueres, Leo 28 Germanovich, V. 11 Figueres, Leo 28 Germanovich, V. 11 Finogenov, Ya. 105 Gershunov, Ye. M. 15 Finkel', V. M. 87 Germanovich, V. 11 Finogenov, Ya. 105 Fiorentino, M. 66 German, A. 12 Firicica, M. 27 Gheorghiu, Al. 127 Firneis, Maria 52 Giambelli, G. 66 Firicica, M. 27 Gheorghiu, Vasile 15 Fisher, Ye. 6 Gians Na. 12 Fionichev, A. Ye. 105 Gimevskiy, A. S. 12 Fomichev, V. 2 Giosan, N. 55 Fomichev, V. 2 Giosan, N. 55 Fomichev, V. 2 Giosan, N. 55 Fomichev, V. 2 Fomin, N. A. 47 Gitel'zon, I. I.		59		Gambardella, A.	
Faynberg, Ya. B. 115 Ganzayeva, S. A. 77 Fedchenko 86 Gan'shin, V. N. 72 Fedorchenko, A. M. 123 Ganzen, V. A. 58 Fedorishcheva, A. 2 Gaponov, M. A. 87 Fedorov, R. M. 116 Garcia, Guillermo 44 Fedorov, V. A. 61 Garcia, Guillermo 44 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, O. P. 88 Gazenko, O. G. 57 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Feller, H. G. 98 Gela, Gabor 18 Feller, H. G. 98 Gelfand, I. M. 100 Ferenbac, I. 27 Gelius, Rolf 71 Ferents, N. K. 75 Gelmetti, P. 68 Ferraz, J. de Oliveira 99 Georgadze, M. 54 Fesechko, V. A. 77 Gerbard, Bahr 71 Feygel'son, V. M. 15 Germanovich, V. 11 Figueres, Leo 28 Germanovich, V. 15 Figueres, Leo 28 Filipenko, V. N. 84 Germeyyer, Yu. B. 101 Finkel', V. M. 87 Gershunov, Ye. M. 12 Finogenov, Ya. 105 Gershunov, Ye. M. 12 Finogenov, Ya. 105 Gershunov, Ye. M. 12 Firorentino, M. 66 Gershunov, Ye. M. 12 Firorentino, M. 27 Gheorghiu, Al. 13 Firla, A. P. 82 Gheorghiu, Vasile 19 Firneis, Maria 52 Giambelli, G. 61 Fisher, W. A. 91 Giang Nam Fisher, Ye. 6 Gianni, E. 61 Florent'yev, L. 48 Gilinskiy, S. M. 11 Fomichev, V. 2 Giosan, N. 55 Fomichev, V. 2 Fomin, N. A. 47 Gitel'zon, I. I. 66		75,	122		
Fedchenko		115		Gamzayeva, S. A.	•
Fedorchenko, A. M. 123 Fedorishcheva, A. 2 Gaponov, M. A. 87 Fedorov, R. M. 116 Garcia, Guillermo 44 Fedorov, V. A. 61 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorus, A. G. 70 Gazenko, O. G. 57 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Feller, H. G. 98 Gela, Gabor 18 Feller, H. G. 98 Ferenbac, I. 27 Gelius, Rolf 71 Ferents, N. K. 75 Gelmetti, P. 68 Fernandez, Jorge 43 Ferrier, A. 90 Ferrier, A. 90 Fersechko, V. A. 77 Gerhard, Bahr 71 Feygel'son, V. M. 15 Gerlack, H. 91 Figueres, Leo 28 Germanovich, V. 11 Finkel', V. M. 87 Finkel', V. M. 87 Finkel', V. M. 87 Finkel', V. M. 87 Fincentino, M. 66 Firicica, M. 27 Gersenvoy, Ye. M. 12 Finogenov, Ya. 105 Fireneins, Maria 52 Giambelli, G. 61 Fischer, W. A. 91 Fischer, Ye. 6 Florent'yev, L. 48 Finel', V. M. 67 Giamadeyev, Kh. 11 Fomichev, V. R. 121 Gimadeyev, Kh. 121 Fomichev, V. R. 125 Fomichev, V. 2 Fomin, N. A. 47 Gitel'zon, I. I.		86		Gan'shin, V. N.	
Fedorov, R. M. 116 Garcia, Guillermo 44 Fedorov, V. A. 61 Garcia, Guillermo 44 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Geck, H. G. 91 Feller, H. G. 98 Gela, Gabor 18 Feoktistov, V. N. 109 Gelfand, I. M. 100 Ferenbac, I. 27 Gelius, Rolf 71 Ferents, N. K. 75 Gelmetti, P. 68 Ferraz, J. de Oliveira 99 Georgadze, M. 54 Feschko, V. A. 77 Gerhard, Bahr 71 Feschko, V. A. 77 Gerhard, Bahr 71 Feygel'son, V. M. 15 Germanovich, V. 11 Fingueres, Leo 28 Germanovich, V. 11 Finkel', V. M. 87 Germogenova, T. A. 120 Finogenov, Ya. 105 Gershunov, Ye. M. 17 Fiorentino, M. 66 Gershunov, Ye. M. 12 Firneis, Maria 52 Giambelli, G. 66 Firneis, Maria 52 Giambelli, G. 66 Fischer, W. A. 91 Giandeyev, Kh. 11 Fogel, I. M. 121 Gimadeyev, Kh. 12 Fomichev, V. A. 26 Fomichev, V. 2 Giosan, N. 56 Fomichev, V. 2 Giosan, N. 56 Fomichev, V. 2 Giosan, N. 57 Fomin, N. A. 47 Gitel'zon, I. I.		123		Ganzen, V. A.	
Fedorov, R. M. 116 Fedorov, V. A. 61 Fedorov, V. A. 61 Fedorov, V. D. 55, 56 Gaulrapp, K. 92 Fedorov, O. D. 55, 56 Gaulrapp, K. 92 Fedorov, O. P. 88 Gazit, Shlomo 33 Fedosov, O. P. 88 Gazit, Shlomo 33 Fedotov, Ya. A. 118 Feller, H. G. 98 Feller, H. G. 98 Feller, H. G. 98 Ferenbac, I. 27 Ferenbac, I. 27 Ferenbac, I. 27 Ferenbac, Jorge 43 Ferraz, J. de Oliveira 99 Ferraz, J. de Oliveira 99 Ferraz, J. de Oliveira 99 Ferracy, V. M. 15 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkel', V. M. 87 Finkel', V. M. 87 Fincentino, M. 66 Firicica, M. 27 Firicica, M. 27 Firicica, M. 27 Fireneis, Maria 52 Fireneis, Maria 52 Fireneis, Maria 52 Fiorent'yev, L. 48 Finkel', V. M. 91 Fisher, Ye. 6 Fiorent'yev, L. 48 Finkely, V. M. 91 Findely, V. N. 81 Finerey, Ye. 105 Finereyky, V. A. 91 Findereyk, V. A. 91 Finker, Ye. 6 Fiorent'yev, L. 48 Gillinskiy, S. M. 117 Fomichev, V. 2 Giosan, N. 56 Fomichev, V. 2 Giosan, N. 57 Fomin, N. A. 47 Gitel'zon, I. I.	-	2			
Fedorov, V. A. 61 Fedorov, V. D. 55, 56 Fedorov, V. D. 60 Fedorov, V. D. 60 Fedorov, V. A. 118 Fedorov, V. A. 118 Feck, V. V. N. 109 Ferenbac, I. 27 Ferenbac, I. 27 Ferenbac, I. 27 Ferenbac, I. 27 Ferenbac, Jorge 43 Ferraz, J. de Oliveira 99 Ferraz, J.		116		Garcia, Guillermo	
Fedorov, V. D. 55, 56 Fedorus, A. G. 70 Fedosov, O. P. 88 Fedotov, Ya. A. 118 Feller, H. G. 98 Feller, H. G. 98 Feoktistov, V. N. 109 Ferenbac, I. 27 Ferents, N. K. 75 Fernandez, Jorge 43 Ferrier, A. 90 Ferrier, A. 90 Feschko, V. A. 77 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkel', V. M. 87 Fincentino, M. 66 Firicica, M. 27 Firela, A. P. 82 Firela, A. P. 82 Firela, N. C. 91 Fincent'yev, L. 48 Fincel', V. M. 91 Fincent'yev, L. 48 Fogel, I. M. 121 Fomichev, V. A. 72 Fomichev, V. A. 73 Gerenanov, Formula, Formul		61		Garraud, Rene	
Fedorus, A. G. 70 Fedosov, O. P. 88 Fedotov, Ya. A. 118 Feller, H. G. 98 Feoktistov, V. N. 109 Ferenbac, I. 27 Ferenbac, I. 27 Ferenbac, Jorge 43 Ferraz, J. de Oliveira 99 Ferrier, A. 90 Fersechko, V. A. 77 Fegel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Firicica, M. 27 Fireneis, Maria 52 Fischer, W. A. 91 Fineis, Maria 52 Fiorent'yev, L. 48 Fogel, I. M. 121 Fomichev, V. A. 47 Fomichev, V. A. 47 Fomichev, V. A. 66 Firmicher, V. A. 91 Fomichev, V. 2 Fomin, N. A. 47 Gitel'zon, I. I. 66		55,	56	Gaulrapp, K.	
Fedosov, O. P. 88 Fedotov, Ya. A. 118 Feller, H. G. 98 Feller, H. G. 98 Feller, H. G. 98 Feller, H. G. 98 Feoktistov, V. N. 109 Ferenbac, I. 27 Ferents, N. K. 75 Fernandez, Jorge 43 Ferraz, J. de Oliveira 99 Ferraz, J. de Oliveira 99 Ferraz, J. de Oliveira 99 Ferraz, J. de Oliveira 90 Fersechko, V. A. 77 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Fireis, Maria 52 Firneis, Maria 52 Fisher, W. A. 91 Fisher, Ye. 6 Florent'yev, L. 48 Fogel, I. M. 121 Fomichev, A. Ye. 105 Fomichev, V. 2 Fomin, N. A. 47 Gerkand, Finkus, I. I. 66 Foreschip, J. M. 121 Fomichev, V. 2 Fomichev, V. 2 Fomin, N. A. 47 Fittel'zon, I. I.				Gazenko, O. G.	
Fedotov, Ya. A. 118 Feller, H. G. 98 Feller, H. G. 98 Feoktistov, V. N. 109 Ferenbac, I. 27 Ferenbac, I. 27 Ferents, N. K. 75 Fermandez, Jorge 43 Ferraz, J. de Oliveira 99 Ferraz, J. de Oliveira 99 Fesechko, V. A. 77 Fesechko, V. A. 77 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkel', V. M. 87 Finogenov, Ya. 105 Fiorentino, M. 66 Fireica, M. 27 Fireis, Maria 52 Fireis, Maria 52 Fisher, Ye. 48 Fisher, Ye. 48 Fiorent'yev, L. 48 Fogel, I. M. 121 Fomichev, A. Ye. 105 Fomichev, V. 2 Fomichev, V. Coitan, I. I.		88		Gazit, Shlomo	
Feller, H. G. 98 Feoktistov, V. N. 109 Ferenbac, I. 27 Ferents, N. K. 75 Fernandez, Jorge 43 Ferraz, J. de Oliveira 99 Ferrier, A. 90 Fesechko, V. A. 77 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Firela, A. P. 82 Firela, A. P. 82 Fisher, Ye. 6 Filorent'yev, L. 48 Figueres, I. 6 Filorent'yev, L. 48 Figueres, Reo 105 Fisher, Ye. 6 Filorent'yev, L. 48 Finkel', V. M. 87 Finkel', V. M. 87 Firela, A. P. 82 Giang Nam Fisher, Ye. 6 Filorent'yev, L. 48 Fisher, Ye. 6 Filorent'yev, L. 48 Figueres, Reo 105 Finels, M. 121 Fomichev, A. Ye. 105 Finels, M. 121 Fomichev, A. Ye. 105 Finels, M. 121 Fomichev, A. Ye. 105 Fomichev, V. 2 Fomin, N. A. 47 Fishel'zon, I. I. 66		118		Geck, H. G.	
Feoktistov, V. N. 109 Ferenbac, I. 27 Ferents, N. K. 75 Ferents, N. K. 75 Fernandez, Jorge 43 Ferraz, J. de Oliveira 99 Ferrier, A. 90 Fesechko, V. A. 77 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Fitricica, M. 27 Firla, A. P. 82 Firsher, W. A. 91 Fisher, Ye. 6 Filorent'yev, L. 48 Florent'yev, L. 48 Fogel, I. M. 121 Fomichev, V. A. Ye. 105 Fomichev, V. A. Ye. 105 Fomichev, V. A. Ye. 105 Fomichev, V. A. 91 Fomichev, V. 47 Fomichev, V. 2 Fomin, N. A. 47 Firelizon, I. I. 66 Foreschip, V. M. 81 Foreschip, V. M. 82 Folionenty, V. M. 83 Folionenty, V. M. 84 Firla, A. P. 82 Firla, A. P. 82 Firla, A. P. 82 Firla, A. P. 82 Firla, Maria 52 Firla, Maria 52 Firla, Maria 52 Firla, M. 91 F		98		Gela, Gabor	
Ferenbac, I. 27 Ferents, N. K. 75 Ferents, N. K. 75 Fernandez, Jorge 43 Ferraz, J. de Oliveira 99 Ferrier, A. 90 Fesechko, V. A. 77 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Fireis, Maria 52 Fireis, Maria 52 Fisher, Ye. 6 Fisher, Ye. 6 Filipent'yev, L. 48 Fincel', I. M. 81 Finel', I. M. 82 Fireis, Maria 52 Fireis, Maria 52 Fireis, Maria 52 Fisher, Ye. 6 Filipent'yev, L. 48 Finel', I. M. 81 Finel', I. M. 91 Giang Nam Fisher, Ye. 6 Fiorent'yev, L. 48 Finel', I. M. 121 Fomichev, A. Ye. 105 Fomichev, V. 2 Fomichev, V. 2 Fomin, N. A. 47 Fitel'zon, I. I. 66		109		Gelfand, I. M.	
Ferents, N. K. 75 Fernandez, Jorge 43 Ferraz, J. de Oliveira 99 Ferrier, A. 90 Fesechko, V. A. 77 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Firela, A. P. 82 Firela, A. P. 82 Fisher, Ye. 6 Florent'yev, L. 48 Fogel, I. M. 121 Fomichev, V. Ye. 105 Fomichev, V. Ye. 105 Fomichev, V. L. 27 Fomichev, V. & 47 Feerglade, M. 91 Georgiava, Eva 89 Gerhard, Bahr 71 Gerlack, H. 91 Germanovich, V. 11 Germanovich, V. 12 Giang Nam 40 Giang Nam		27		Gelius, Rolf	
Fernandez, Jorge 43 Ferraz, J. de Oliveira 99 Ferrier, A. 90 Fesechko, V. A. 77 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Firla, A. P. 82 Firneis, Maria 52 Fisher, Y. M. 82 Fisher, Y. M. 91 Fisher, Y. M. 82 Fisher, Y. M. 83 Fisher, Y. M. 84 Firent'yev, L. 48 Fogel, I. M. 121 Fomichev, V. A. 47 Fomichev, V. 2 Fomin, N. A. 47 Ficeroriova, Eva 89 Georgadze, M. 54 Gerhard, Bahr 71 Gerhard, Bahr 71 Gerhard, Bahr 71 Gerhard, Bahr 71 Germanovich, V. 11 Germanovich, V. 12 Gheorghiu, Al. 13 Giang Nam 40 Giang Nam 40 Gianni, E. 66 Gilinskiy, S. M. 11 Gimadeyev, Kh. 16 Ginevskiy, A. S. 12 Giosan, N. 56 Giosan, N. 56 Giosan, N. 56 Giosan, N. 56 Gitel'zon, I. I. 66		7 5		Gelmetti, P.	
Ferrier, A. 90 Georgiova, Eva 89 Ferrier, A. 77 Gerhard, Bahr 71 Feygel'son, V. M. 15 Gerlack, H. 91 Figueres, Leo 28 Germanovich, V. 11 Filipenko, V. N. 84 Germeyyer, Yu. B. 101 Finkel', V. M. 87 Gershunov, Ye. M. 117 Finogenov, Ya. 105 Gertsenzon, A. A. 126 Firicica, M. 27 Gheorghiu, Al. 137 Firla, A. P. 82 Gheorghiu, Vasile 19 Fisher, W. A. 91 Gianni, E. 66 Fisher, Ye. 6 Gianni, E. 67 Florent'yev, L. 48 Gilinskiy, S. M. 117 Fomichev, A. Ye. 105 Fomichev, V. 2 Giosan, N. 56 Fomin, N. A. 47 Ficher is Gianni, I. I. 66		43		Gentzsch, G.	
Ferrier, A. 90 Fesechko, V. A. 77 Fesechko, V. A. 77 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Firla, A. P. 82 Firneis, Maria 52 Fischer, W. A. 91 Fisher, Ye. 6 Florent'yev, L. 48 Fogel, I. M. 121 Fomichev, A. Ye. 105 Fomichev, V. 2 Fomin, N. A. 91 Fomichev, V. 2 Fomin, N. A. 47 Fisher, Va. 6 Forenty, V. 2 Fomin, N. A. 92 Fomin, N. A. 65 Forenty, V. A. 66 Firent'zon, I. I. 65 Forenty, V. A. 66 Forenty, V. A. 66 Forenty, V. A. 66 Fomichev, V. 66 Fomichev, V. 67 Fomin, N. A. 67 Forenty, V. A. 67 Forenty, V. A. 66 Forenty, V. A. 67 Forenty, V. A. 66 Forenty, V. A. 67 Fo	Ferraz. J. de Oliveir	a 99		Georgadze, M.	
Fesechko, V. A. 77 Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Firla, A. P. 82 Firneis, Maria 52 Fisher, Ye. 6 Florent'yev, L. 48 Fiorent'yev, L. 48 Fogel, I. M. 121 Fomichev, A. Ye. 105 Fomichev, V. A. 91 Fomichev, V. A. 47 Fomichev, V. A. 92 Fomin, N. A. 93 Foremanovich, V. 91 Gerhard, Bahr Gerhard, Bahr Gerlack, H. 91 Gerlack, H. 91 Germanovich, V. 11 Germanovi		90		Georgiova, Eva	89
Feygel'son, V. M. 15 Figueres, Leo 28 Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Firla, A. P. 82 Firneis, Maria 52 Fischer, W. A. 91 Fisher, Ye. 6 Florent'yev, L. 48 Fogel, I. M. 121 Fomichev, A. Ye. 105 Fomin, N. A. 91 Fomin, N. A. 92 Fomin, N. A. 93 Germanovich, V. 11 Germanovic		77		Gerhard, Bahr	71
Figueres, Leo Filipenko, V. N. Filipenko, V. N. Finkel', V. M. Finkus, Daniel Finogenov, Ya. Fiorentino, M. Firicica, M. Firicica, M. Firla, A. P. Firneis, Maria Fisher, Ye. Florent'yev, L. Fogel, I. M. Fomichev, A. Ye. Fomichev, V. Fomin, N. A. Filipenko, V. N. 84 Germanovich, V. Germanovic		15			
Filipenko, V. N. 84 Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Firla, A. P. 82 Firneis, Maria 52 Fischer, W. A. 91 Fisher, Ye. 6 Florent'yev, L. 48 Fogel, I. M. 121 Fomichev, A. Ye. 105 Fomichev, V. 2 Fomin, N. A. 47 Finely Germogenova, T. A. 120 Gershunov, Yu. B. 121 Gershunov, Ye. M. 125 Gershunov, Ye. M. 127 Gheorghiu, Al. 137 Gheorghiu, Vasile 19 Giambelli, G. 66 Gianni, E. 67 Gianni, E. 67 Gianni, E. 67 Gianni, E. 67 Gimadeyev, Kh. 117 Gimadeyev, Kh. 127 Giosan, N. 56 Giosan, N. 57 Gitel'zon, I. I. 67		28			
Finkel', V. M. 87 Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Firla, A. P. 82 Firneis, Maria 52 Fischer, W. A. 91 Fisher, Ye. 6 Florent'yev, L. 48 Fogel, I. M. 121 Fomichev, A. Ye. 105 Fomichev, V. 2 Fomin, N. A. 47 Gershunov, Y. A. 126 Gershunov, Y. M. 127 Gheorghiu, Al. 137 Gheorghiu, Vasile 19 Giambelli, G. 66 Gianni, E. 67 Ginevskiy, A. S. 126 Giosan, N. 57 Giosan, N. 57 Gitel'zon, I. I. 67		84			
Finkus, Daniel 27 Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Firla, A. P. 82 Firneis, Maria 52 Fischer, W. A. 91 Fisher, Ye. 6 Florent'yev, L. 48 Fogel, I. M. 121 Fomichev, A. Ye. 105 Fomichev, V. 2 Fomin, N. A. 47 Gershunov, Ye. M. 127 Gertsenzon, A. A. 127 Gheorghiu, Vasile 128 Giambelli, G. 66 Gianni, E. 67 Gianni, E. 67 Gianni, E. 67 Gianni, E. 67 Gimadeyev, Kh. 127 Gimadeyev, Kh. 127 Ginevskiy, A. S. 127 Giosan, N. 56 Gitel'zon, I. I. 67	Finkel'. V. M.	87			
Finogenov, Ya. 105 Fiorentino, M. 66 Firicica, M. 27 Firla, A. P. 82 Firneis, Maria 52 Fischer, W. A. 91 Fisher, Ye. 6 Florent'yev, L. 48 Fogel, I. M. 121 Fomichev, A. Ye. 105 Fomichev, V. 2 Fomin, N. A. 47 Gertsenzon, A. A. 12 Gertsenzon, A. A. 12 Getman, A. 12 Gheorghiu, Vasile 15 Giambelli, G. 66 Giambelli, G. 66 Gianni, E. 68 Gianni, E. 68 Gilinskiy, S. M. 11 Gimadeyev, Kh. 16 Ginevskiy, A. S. 12 Giosan, N. 56 Gitel'zon, I. I. 66		27			
Fiorentino, M. 66 Getman, A. 12 Firicica, M. 27 Gheorghiu, Al. 131 Firla, A. P. 82 Gheorghiu, Vasile 19 Firneis, Maria 52 Giambelli, G. 66 Fischer, W. A. 91 Giang Nam 40 Fisher, Ye. 6 Gianni, E. 67 Florent'yev, L. 48 Gilinskiy, S. M. 11 Fogel, I. M. 121 Gimadeyev, Kh. 10 Fomichev, A. Ye. 105 Ginevskiy, A. S. 12 Fomichev, V. 2 Giosan, N. 56 Fomin, N. A. 47 Gitel'zon, I. I. 65		105			
Firicica, M. 27 Gheorghiu, Al. 133 Firla, A. P. 82 Gheorghiu, Vasile 12 Firneis, Maria 52 Giambelli, G. 66 Fischer, W. A. 91 Giang Nam 46 Fisher, Ye. 6 Gianni, E. 68 Florent'yev, L. 48 Gilinskiy, S. M. 11 Fogel, I. M. 121 Gimadeyev, Kh. 16 Fomichev, A. Ye. 105 Ginevskiy, A. S. 12 Fomichev, V. 2 Giosan, N. 56 Fomin, N. A. 47 Gitel'zon, I. I. 67		66			12
Firla, A. P. 82 Gheorghiu, Vasile 15 Firneis, Maria 52 Giambelli, G. 66 Fischer, W. A. 91 Giang Nam 46 Fisher, Ye. 6 Gianni, E. 65 Florent'yev, L. 48 Gilinskiy, S. M. 11 Fogel, I. M. 121 Gimadeyev, Kh. 16 Fomichev, A. Ye. 105 Ginevskiy, A. S. 120 Fomichev, V. 2 Giosan, N. 56 Fomin, N. A. 47 Gitel'zon, I. I. 65		27			
Firneis, Maria 52 Giambelli, G. 66 Fischer, W. A. 91 Giang Nam 46 Fisher, Ye. 6 Gianni, E. 67 Florent'yev, L. 48 Gilinskiy, S. M. 11 Fogel, I. M. 121 Gimadeyev, Kh. 16 Fomichev, A. Ye. 105 Ginevskiy, A. S. 126 Fomichev, V. 2 Giosan, N. 56 Fomin, N. A. 47 Gitel'zon, I. I. 67		82			
Fisher, Ye. 6 Gianni, E. 68 Florent'yev, L. 48 Gilinskiy, S. M. 11 Fogel, I. M. 121 Gimadeyev, Kh. 16 Fomichev, A. Ye. 105 Ginevskiy, A. S. 120 Fomichev, V. 2 Giosan, N. 56 Fomin, N. A. 47 Gitel'zon, I. I. 65					
Fisher, Ye. 6 Gianni, E. 6 Florent'yev, L. 48 Gilinskiy, S. M. 11 Fogel, I. H. 121 Gimadeyev, Kh. 10 Ginevskiy, A. S. 12 Giosan, N. 5 Fomichev, V. 2 Giosan, N. 5 Gitel'zon, I. I. 6		91			
Florent'yev, L. 48 Fogel, I. M. 121 Gimadeyev, Kh. 16 Fomichev, A. Ye. 105 Ginevskiy, A. S. 126 Fomichev, V. 2 Giosan, N. 56 Fomin, N. A. 47 Gitel'zon, I. I. 65					
Fogel, I. M. 121 Gimadeyev, Kh. 17 Fomichev, A. Ye. 105 Ginevskiy, A. S. 120 Fomichev, V. 2 Giosan, N. 50 Fomin, N. A. 47 Gitel'zon, I. I. 65	Florent'yev, L.				
Fomichev, A. Ye. 105 Ginevskiy, A. S. 126 Fomichev, V. 2 Giosan, N. 56 Fomin, N. A. 47 Gitel'zon, I. I. 65					10
Fomichev, V. 2 Giosan, N. 5. Fomin, N. A. 47 Gitel'zon, I. I. 6.					
Fomin, N. A. 47 Gitel'zon, I. I. O.					50
	Fomin, N. A.				62
Foti, E. 66 Glauser, A. 0				Glauser, A.	67 77
Fradkin, S. L. 54 Gliki, N. V. 7		54		G11K1, N. V.	73

Glizmanenko, D. L.	70	Guiraldeng, P. 90	ì
Gnatyuk, A. D.	85	Gurakov, A. A. 76	
Gnoyenskiy, L. S.	77	Gurevich, S. Ye. 117	
Godefroid, Albert	32	Gurin, I. L. 59	
Godunov, S. K.	101	Gurland, J. 89	
Goennert, R.	66	Gurvits, Ye. A. 78	
Goetze, T.	66	Gusev, A. V. 79	
Gogolev, A. V.	9	Gusev, M. V. 56	
Gogolev, I. G.	103	Gusman, B. S. 63	
Goldayev, I. P.	109	Gutescu, L. 20	
Gol'dshtein, N. L.	86	Gutierrez, Carlos Maria 44	
	21	Gutierrez, Gabriel 45	
Golijanin, Milan	106		
Golman, L. D.	7	•	
Golosovskiy, S.		Gutnik, A.	
Golovkin, V.	10	Guyard, P. 90	,
Golovteyev, V. V.	62	**	
Golubovich, S. R.	105	- II -	
Gombos, Zoltan	108	11 Davis	
Gombosuren, D.	42	Ha Dang 41	
Goncharenko, V.	14	Ha Ke Tan 108	
Goncharenko, V. P.	123	Ha Van 41	
Goncharov, N.	11	Haase, R. 67	
Goncharuk, A. B.	71	Habernickel, V. 71	
Gontkevich, V. S.	119	Haga, Laszlo 108	
Goranskiy, G.	79	Haiba, Moktar Ould 31	
Gorelikov, N. I.	80	Harder, Dietrich 113	
Gorokhov, L. P.	80	Hartig, Gunter 16	
Gorokhovskiy, Yu. N.	109	Haryakina, K. N. 87	
Gorshkov, M.	5	Haupt, Hermann 52	
Gorshkov, V. N.	127	Hausmann, A. 125	
Gostev, B.	5	Haussmann, G. 107	
Granovskaya, R. M.	58	Hauttmann, A. 90	
Grasowski, Hans-Joachim	16	Haverkamp, K. D. 91	
Grayer, M. I.	100	Hecht, G. 67	
Gremilov, D. I.	121	Hedyalkov, I. 101	
Greysukh, V. L.	54	Hejl, Lubos 15	
Gribanov, S.	11	Heng Chen 123	5
Gricher, I.	110	Henke, F. 93	\$
Grigolyuk, Ye. I.	105	Hennig, O. 94	ı
Grigorescu, Victor	27	Henri, Ernst	7
Grimak, L.	10	Herberg, G. 95	Ś
Grinevskiy, V.	13	Herbsleb, G. 97	7
Grishanov, V.	9	Herrera Gray, Mario 4:	5
Grishanov, V. M.	12	Hesse, T. 92	2
Grishin, A. M.	115	Heynert, G. 9:	l
Grodzovskiy, G. L.	127, 129	Hideo Fujie 113	5
Gromova, T. N.	73	Hilaire, J. 33	5
Groten, E.	74	Hillnhutter, F. W. 94	ţ
Grudinin, I.	10	Hilsum, Francois 29	
Grutzner, G.	96	Hiroji Mochizuki 11:	
Gruzdev, V. A.	121	llito Cako 23	
Gspann, J.	125	Hladyshevs'kyy, Ye. I. 100	
Gubarev, V.	110	Hlineny, J. 8	
Gucwa, Stanislaw	50	Illuchnik, G. 9	
Gudimov, A.	1	Ho Kuang-ch'ien 12:	
,	-		

Ho Ming-Kao	123	Ivanov, M. V.	61
Ho Van	51	Ivanov, R.	49
Hoff, G.	74	Ivanov, V. S.	120
Holland, Christian	67	Ivanov, V. Ye.	85
Hollo, Lajos	18	Ivanov, Yu. N.	129
Holzgruber, W.	96	Ivanovskiy, M. N.	119
Hong Son	40	Ivchenko, V. M.	115
Horstmann, D.	96	Ivosevic, Veljko	22
Hotchkiss-Brandt	107	Iyerusalimskiy, N. D.	57
Hrelescu, M.	100	Izmaylov, A. A.	
Hsiang Ch'un	123	12may10v, A. A.	104
Hsu Itang	42	•	
•		- J -	
Hsu Ying-han	63		
Hua Chung-I	106	Jablonski, Henery	24
Huang Hung-tz'u	102	Jackel, G.	91
Huang Wu-Han	123	Jakenberg, K. E.	100
Hubert, F. J. P.	89	Janicek, Vladimir	50
Hung Ching	124	Jankovic, V.	102
Hung Huy	39	Jantzen, E. K.	127
Hurea, Jeanne Claude	74	Jaroszewski,	
Hussmann, A. W.	128	Tadeusz M.	27
Huu Tho	51	Jedlicska, Gyula	18
Huynh Van Tieng	38	Jedlinski, J.	99
11-7		Jen Tso	88
- I -			
- 1 -		Jerzykiewicz, A.	99
Innau Costache	10	Jespersen, Knud	28
Iancu, Costache	19	Jessen, C.	107
Igumnov, Yu.	1	Jezek, J.	89
Iijima, H.	98	Jon, R.	89
Ikonic, Branislav	22	Jonec, V.	64
Ikui, H.	68	Jung, Hans-Joachim	25
Ilic, Bogdan	21		
Ilic, Radmilo	21	- K -	
Illiescu, I.	25		
Illiescu, Ion	24	Kadare, Ismail	26
Il'yin, V.	63	Kadashevich, V. I.	78
Ilyukhin, V. T.	78	Kadomtsev, B. B.	120
Im Kyong-sik	5Ő	Kadyshnikov, V. M.	53
Inge-Vechtonov, S. G.	62	Kaes, H.	97
Ingrao, Pietro	29	Kahan, A.	65
Ionescu-Gilian, C.	24	Kaindl, K.	67
Ionov, S.	106	Kalachev, D. M.	121
Ioshpa, B. A.	52		
Irger, D. S.	101	Kalent'yeva, Ye. I.	59 06
		Kalla, U.	96
Isakov, V.	1	Kallai, Gyula	18
Isayev, A. S.	61	Kalman, Gyorgy	23
Isayev, V. K.	129	Kalousova, V.	64
Ishkov, A.	3 ,	Kalweit, Gerhard	108
Iskenderov, A.	54	Kayuzhnyy, I. V.	5
Iskenderov, M.	5 5	Kamayev, Yu. N.	76
Issarescu, U.	95	Kaminskiy, S. L.	62
Ito, G.	98	Kamnev, Ye. F.	121
Ivanitskiy, V. I.	3	Kanonykhin, N. M.	80
Ivanov, G. A.	47	Kantor, B. Ya.	83
Ivanov, M. N.	57, 78		111
	3., .0	maneva, m, itt,	

Kapilov, A.	12	Kim Yon-tok	35	
Karakina, A. A.	86	Kin, S.	68	
Karamara, A.	126	Kipshidze, Z. Sh.	80	
Karamyshev, V.	9	Kirillov-Ugryumov,		
Karapetyan, N. V.	55	V. G.	112	
Karavayko, G. I.	57	Kirillova, V. S.	72	
Karbula, Adolph	112	Kirs, Ya.	116	
Kard, P.	116	Kirst, M. A.	111	
Kargashina, V. A.	72	Kiryukhin, A.	48	
Karkinskiy, V. A.	63	Kislyakov, A. G.		117
Karlashov, A. V.	85	Kito, Petro	23	1
Karlyuk, I.	49	Klar, Horst	17	
Karpinos, D. M.	87	Kleer, Jerzy	18	
Karpman, V. I.	118	Klimes, F.	124	
Karpovich, V. N.	57	Klimov, S. A.	118	
Karpukhin, I. A.	127	Klokova, A. I.	119	
Kartuzhanskiy, A. L.	121			
Karyagin, O. I.	75	Klotyn'sh, Ye. Ye.	116	
Kashin, M. P.	14	Klushin, M. I.	103	
Kashkarov, V. P.	119	Klyachko-Gurvich, G. L.	56	
Kasimov, B. O.	111	Klyunikova, L. A.	53	
		Knittl, Zd.	124	
Kassirskiy, I. A.	59	Ko Hun-il	37	
Kastal'skiy, L. I.	121	Kobayashi, K.	68	
Kato, S.	68	Kobozev, N. I.	121	
Katona, Eva	26	Kobusch, H.	97	
Katsman, M. V.	62	Kobyakova, Z. I.	73	
Katys, G. P.	109	Kobyakovskiy, N. F.	117	
Kavetskiy, R. Ye.	58	Kobzenko, G. F.	85	′
Kazanets, I.	5	Koch, F.	98	
Kazarinov, V.	10	Koch, F. O.	91	
Keller, P.	97	Koch, K. H.	94	
Kelov, K.	117	Koch, K. R.	129	
Kerkel, O.	5	Koch, W.	97	
Kerov, I. P.	105	Kochetkova, Ν. Λ.	70	
Keseru, Janos	18	Kochevykh, I.	1	
Keys, L. H.	89	Kolesnikov, K.	54	
Khakhalin, Lev	12	Kolesnikova, T. P.	76	
Khalimon, F. F.	84	Kolodziejczyk, Tadeusz	27	
Kharin, A. S.	52	Kolomiyets, V. P.	79	
Kharin, D. A.	72	Koloskova, Yu. S.	60	
Kharkevich, A. A.	110	Kolychev, V. A.	83	
Khavich, E.	83	Komarnitskaya, N. I.	51	
Khersonskiy, A.	11	Komarov, D.	83	
Khitrov, S.	105	Konavalenko, A.	130	
Khizhnyak, N. A.	115	Kondrat!yeva, Ye. N.	55	
Khomelyanskiy, B. N.	13	Konopacki, Henryk	131	
Khovrin, N.	11	Konovalov, V. A.	75	
Khvan, Ye. A.	70	Kontorovich, I. Ye.	86	
Kiforenko, B. N.	127 .	Kontorovich, Ye. I.	86	
Kilchinskiy, A. A.	118	Kontsevaya, A.	14	
Kim Ch'ang-hyong	37	Koneczi, Bela	26	
Kim Hak-son	37	Kopnin, Yu. M.	129	
Kim, K.	2	Koppelman, J.	93	
Kim Tong-su	35	Kopylov, Yu. A.	117	
		nolideath int ut	4.7	

V 1	100	,, 1, 4		
Kordas, Boleslaw	108	Krumbiegel	50	
Korenberg, E. I.	59	Krumbiegel, D.	50	
Korenev, B. G.	104	Kryzhanovskiy, B. P.	122	
Kormnov, Yu.	2	Kubalek, Jaromir	16	
Kornev, Y. N.	100	Kubik, K.	74	
Korobkina, G. S.	61	Kudritskiy, Yu. D.	63	
Korolev, V. V.	104	Kuhn, G.	71	
Korotich, V. I.	86	Kuhnelt, G.	92	
Korotkov, G.	10	Kukharev, N.	1	
Korotkov, V. P.	122	Kukinov, A. M.	75	
Korshak, V. V.	88	Kulayev, I. S.	55	
Korshever, I. I.	80	Kul'batyrov, Kh.	3	
Korsunskiy, M. I.	121	Kulin, D.	128	
Kosarev, Yu. G.	76	Kuliyev, A. M.	69,	70
Kosmodem-Yanskiy,		Kulmburg, A.	95	
A. A.	47	Kul'vets, P.	6	
Kostesskiy, B. I.	103	Kul vinova, I. N.	59	
	106	Kunii, K.	99	
Kostousov, A. I. Kosyrev, Ye.	12		113	
	21	Kunio Higashi	93	
Kovac, Stjepan		Kunst, H.	92	
Kovalev, N.	4, 7	Kunze, E.		
Kovalev, V.	9	Kupriyanov, Ivan	40	
Kovalevskiy, M. M.	127	Kurilov, B. M.	54	
Kovalevskiy, V. A.	100	Kurilov, D.	1	
Kovari, L.	93	Kustov, V. V.	128	
Kovelevskiy, V.	78	Kutateladze, S. S.	122	
Kovyazin, B. M.	106	Kuzin, M. I.	57	
Kowaka, M.	99	Kuzmin, A. D.	118	
Kozhevnikova, G.	49	Kuz min, N. M.	14	
Kozik, B.	100	Kuz mina, N. V.	72	
Kozlov, B. I.	88	Kuz mina, R. I.	60	
Kozlov, N.	4	Kuznetsov, B. I.	52	
Kozlov, R. A.	87	Kuznetsov, I. A.	128	
Kozlyaninov, T. P.	111	Kuznetsov, S. I.	56	
Kozyrev, S. P.	109	Kuznetsov, S. N.	114	
Kozyrevskaya, G. I.	60	Kuznetsov, V.	84	
Krainer, H.	97	Kye Ung-t'ae	37	
Kramer, Bela	17			
Krashennikov, V.	2			
Krasicki, Ignacy	24	- L -		
Krasnoglazov, B.	2			
Krasnovskiy, A. A.	55, 56	Lacaze, H.	125	
Krasnushkin, P. Ye.	52, 111	Laco, T.	49	
Kraus, Josef	16	Lagutin, N.	2	
Kraus, K.	125	Lakicevic, Dusah	28	
Krauss, G.	91	Lammich, Konrad	17	•
Krouss, Krzysztof	19	Lamoureux, Gille	66	
Krebs, II.	65	Landau, Benjamin	34	
Krechetnikov, N.	13	Lane, V.	64	
Krejci, L.	124	Lange, W.	97	
Kreka, Vangjel	15	Langhammer, H. J.	91	
·	70	Larikov, L. N.	114	
Krestov, G. A.	14	Larionov, A. S.	63	
Krevnevich, V. V.		_	43	
Krstulovic, Vicko	22	Larteguy, Jean	43	

Lasenko, V. Ye.	83		Lozinskiy, M. G.
Lasic, Vladimir	22		Lu Ching-Fa
Laszewski, Janusz	74		Lubsandorj, S.
Laszkiewicz, E.	72		Lucke, 0.
Latsis, 0.	54		Lukusa, Theophile
Laurent, Paul	29		Lung Tzu-tu
Lavrenchuk, V. P.	114		Luong Phu
Laykhtman, D. L.	53		Lupa, Herbert
Lazarenko, I.	129		Luriya, A. R.
Lazarev, V. G.	79		Luu Quy Ky
Lazaroiu, D. F.	20		L'vov, D. K.
Le Quang Hoa	41		Lyalikova, N. N.
Lebedev, A. D.	114		Lychak, V. S.
Lebedev, T. A.	106	**	Lytskiy, A. Ye.
Lebedev, V.	128	•	Lyubimov, V. M.
Lebedev, Yu. M.	61		Lyudskanov, A.
Lebedeva, Ye. K.	60		Lyutaya, M. D.
Lebedinskiy, N. P.	4		
Lebin, I. A.	1		
Lechowicz, Wlodzimierz	18		
Lehmann, H. J.	93		
Leibenguth,			
Jean-Louis	71,	125	
Leipniker, Arthur	113		
Lekhnitskiy, S. G.	103		
Lemeshev, M.	49		
Lenmartz, G.	125		
Lenskaya, I.	110		
Leone, R.	68		
Leonhardt, F.	92		
Leont'yev, A. I.	122		
Leren, Paul	69		
Levallois, J. J.	73	•	
Levin, G. Ye.	122	•	•
Levin, V. V.	120		
Leykand, M. A.	105		
Leypunskiy, A. I.	127		
Likhachev, F.	10		
Likhodiy, P.	1		
Lipkin, S. A.	75		
Lipovoy, G. S.	101		
Lisanka	51		
Lisovskiy, G. M.	59		
Liu Chen-mao	123		
Lobanov, D.	12		
Locar, M.	20		
Lofblad, B.	97		
Lominadze, D. G.	115		
Lomonosov, M. V.	121		
Longo, Luigi	29		
Loretsyan, Zh. M.	52		
Loscher, II.	94		
Losev, L. K.	5		
Loskutov, V. I.	78	•	
Losyev, V. V.	112		

45

106

Matus, Elias

Matveyev, G. A.

Mistewicz, Roman

Mitsche, R.

Mitskevich, A.	62	Nedoreshto, S.	5	
Mityayev, I.	79	Nedyalkov, I.	101	
Masahiro, Miyashita	35	Neergaard, K. Von	67	
Mkhitaryan, Sh. A.	69	Neklyudov, A.	4	
Micoch, Josef	47	Nekrasov, A. M.	83	
Mndzhoyan, A. L.	70	Neubert, G.	98	
Mogilyanskiy, A. Moisuc, Viorica	6	Neyman, S. A.	110	
Mokhaylov, V.	24	Ngo Thuc	35	
Mokhov, N. I.	2 5	Nguyen Ba Doan	3 9	
Mokrousov, N.	102	Nguyen Chi Thanh	39	
Molchanov, N. S.	62	Nguyen Duc Thang	69	
Moldavskiy, O. D.	87	Nguyen Hoai Bac	51	
Manje, Mario	43	Nguyen Huong	108	
Morakhevskiy, T. N.	87	Nguyen Kong Tuy	101	
Mordasov, V.	49	Nguyen Phuc Viet Nguyen Trung Thanh	42	
Morechand, Guy	41	Nguyen Van Dao	66 36	
Morozov, A. M.	80	Nguyen Van Mau	75	
Morrien, J.	23	Nguyen Van Tao	40	
Moskalenko, Yu. Ye.	57	Nham, Nguyen-Khac	35	
Moskvin, P.	7	Nichiporovich, A. A.	55,	50
Mosoiu, Ion	19	Niculescu, Gh. M.	20	J J
Mosse, A. L.	71	Niebeling, H.	67	
Motenko, B. N.	109	Nielson, Heino	71	
Mroz, Stanislaw	50	Nikiforov, I. N.	62	
Mudrov, M.	14	Nikitenko, N. I.	80	
Mueller, German	71	Nikolojevic, Bozidar	- 21	
Multrus, V.	81	Nikol ayenko, V. A.	112	•
Munzar, R.	25	Nilovskaya, I. T.	59	
Muras, V. S.	84	Nilovskaya, N. T.	60	
Mussgnug, G.	93	Nishimura, T.	99	
Mutafchiev, Tsonyu	15	Nistor, I.	20	
Mykhaylov, V. V.	102	Niwa, K.	99	
		Nizet, A.	64	
- N -		Novacek, Vladimir	16	
, -		Noumov, A. P.	111	
Nagirnyak, P.	2	Novgorodov, A. Novikov, I.	12	
Nagy, E.	128	Novokshanova-	104	
Nagylucskay, S.	68	Sakolovskaya, Z. K.	77	
Nakae, H.	98	Novosel'tsev, L. Ya.	73 77	
Nakhodkin, N. G.	115	Nowicki, Andrzej	24	
Nako, Andrea	15	Nowinski, Stanislaw	110	
Nalimov, V. V.	76, 101		***	
Mapp-Zinn, Klaus	67			
Narodetskiy, M. Z.	114	- 0 -		
Nasyrov, Kh.	103	-		
Navmov, A. P.	111	Oblivin, A. N.	119	
Navratil, M.	127	Oblomskiy, Ya. A.	4	
Nazarov, A.	73	Oborneva, A. G.	52	
Nazarov, R.	7	Obrejanu, Grigore	51	
Nazarova, N. V.	52	Obridko, V. N.	52	
Nezhivin, Yu.	13	Occhetto, Achille	30	
Nebol'sin, A.	13	Odeuan	40	

Odin, G.	90	Pavlichenko, O. S.	115
Oelsen, W.	91	Pavlov, G. I.	63
Oganesyan, M.	87	Pavlov, P.	7
Ogarodnikov, V.	11	Pavlovic, Tihomir	108
Ogibalob, P. M.	104	Pawelski, O.	96
Ogryskov, V. M.	16	Pazderak, J.	112
Oheim, D	82	Pchelkina, A. A.	59
Okada, A.	98	Pchelkina, L. V.	118
Okopnyy, V.	104	Peisl, Hans	125
01'khovskaya, B.	48	Penchev, G.	101
Oramas, Joaquin	51	Penczek, P.	99
Ordan'yan, S. S.	70	Perepukhov, V. A.	116
Orekhov, Ye.	13	Perevezentsev, Ye. N.	129
Orlov, B.	7		
Orlov, M.	2	Perkowski, Tadeusz	18
Orlov, P. P.	83	Pernik, A. D.	73
Orlov, V. V.	125	Pervukhin, M. G.	4
Orosz, Laszlo	17	Pescatore, C.	81
Ortiz, Gabriel		Pessel', M.	7
•	45	Pessi, Ville	28
Osdoit, B.	90	Petkov, Khr.	26
Osipov, I.	73	Petri, H.	107
Osipen, V. G.	84	Petrov, G. I.	14
Osmolovskiy, P. F.	100	Petrov, G. M.	52 5
Ostapenko, Yu. V.	76	Petrov, N. Petrov, V. M.	14
Ostrovskaya, G. V.	117	Petrov, V. M. Petrov, Yu. M.	14 47
Otte, H.	65	Petrovskiy, B. V,	57
Otto, F. J.	67	Petrunya, L. A.	79
Otto, H. G.	107	Petryanov, I. V.	88
Otto, M.	112	Petz, M.	92
Ovcharenko, F.	8	Pevzner, L. V.	87
Ovchinnikov, V. N.	6	Pfeuffer, A.	93
Oyzerman, T.	8	Pfeiffer, I.	98
		Pham Ngoc Kinh	51
		Pham Ngoc Thach	69
- P -		Phan Nhan	42
		Philibert, J.	89
Paczolay, Gyula	131	Phillip, W. H.	96
Padrum, Ruth	41	Phuong Hong	39
Pajestka, Jožef	27	Pichugin, Å.	127
Pakhomov, B. Ya.	120	Pick, Arnold	67
Palumbo, L.	98	Pidkasistyy, P. I.	14
Panknin, W.	96	Pierrard, H.	90
Pankov, Ivan	15	Pigulovskiy, F. A.	110
Pantke, H. D.	96	Pilipenko, A.	4
Pape, R.	96	Pilter, P.	98
Papp-Vary, Arpad	74	Pilz, S.	81
Parfenov, G. P.	58	Pimenov, M. K.	72
Parfenov, V.	5	Pimenova, M. N.	56
Parin, V. V.	58, 59	Pineda, Isidro	
Parpala, O.	20		44
Pasolini, L.	82	Pinski, Marian	69 52
Paszek, W.	82 82	Pinus, N. Z.	52
Patrunov, F. G.	100	Pirovich, L. Ya.	78
Patrunov, G. G.	79	Pirs, J.	93
Pavlicek, Milos	79 64	Pirumov, U. G.	118
· aviiver' hit 102	U4	Pitsch, W.	91

			05
Plasari, Ndreci	23	Pugin, V. S.	85
Plasil, Stanislav	47	Puiu, Al.	20
Plateua, J.	89	Pukhov, G. Ye.	77
Plockinger, E.	96	Puszer, A.	82
Plotnikov, V. I.	101	Puzanov, V. P.	86
Plumer, L.	110	Pykhteyev, G. N.	122
Podgornyy, N.	54		
Podol'skiy, Yu. Ya.	84		
Poitier, J.	32	- Q -	
Pokhil, P. F.	70	•	
Pokorny, B.	93	Qiriako, Stavri	15
Pokrouskaya, Ye. I.	60	Queneau, Dr.	65
Poletayev, V. D.	78	Quijano, Jose Manuel	44, 46
Polivoda, A. I.	129	Quyet, Nguyen	41
Poluboyarov, Pavel	12	(3,00) 1180,011	
Polushkin, I. M.	123		
Polyanskiy, I.	3	- R -	
	72		
Pomerantsev, N. M.	111	Rabinovich, A. A.	121
Ponomarev, V. M.	118	Rabotnova, I. L.	56
Pononarenko, V. G.			14
Popa, M.	28	Rachinskiy, V. V.	20
Popescu, Gheorghe	19	Radovan, Paul	74
Popov, K.	7	Radu, S.	89
Popov, O. V.	80	Raineshova, J.	
Popovic, Miroslav	22	Rakovic, Milovan	51
Popper, Armand	19	Ramon, M.	6
Pouillard, E.	90	Raminger, Jerry	27
Pozdnyakov, V. V.	86	Ransdorf, J.	8 9
Pozo, Alberto	28, 43	Rashidov, Sh.	8
Pradellok, W.	99	Ratner, I. S.	127
Prado, Jorge del	44	Ratner, S. B.	86, 87
Prangischvili, I. V.	82	Rauch, Benno	16
Prasek, L.	127	Reichelt, W.	93
Pravdina, G. M.	57	Reisner, W.	92
Preisendanz, H.	91	Repalov, N. S.	115
Preucil, M.	81	Rerberg, M. S.	60
Prey, Guenter	131	Rezgol', I. A.	83
Primenko, V. I.	122	Reznik, A.	9
Pritulin, P. I.	63	Riedl, J.	95
Priyma, T.	49	Rineyskiy, A. A.	128
Prnka, T.	89	Rischbieter, F.	125
Prochazka, K.	130	Riviere, M. R.	65
Prokhorov, N. L.	79	Rizzo, H. P.	99
Prokopov, G. P.	101	Rocquet, P.	90
Prokopov, V. K.	100	Rodinov, N.	9
Pronkin, N. F.	88	Rodriguez, Javier	43
Pronov, A. P.	87	Rogozin, I. I.	63
Prosin, V.	48	Rohe, K. H.	67
Proskurhin, M. A.	71	Rojo, Ricardo	44
Prostyakov, I.	4	Romanenko, P. N.	119
Prudnikov, A. G.	126	Romanov, V. V.	72
Przhiyalkovskiy, M. M.		Romanova, A. K.	55
Pshenichnov, G. I.	116	Romascan, A.	92
Pshenichnyy, V. D.	126	Romodanova, L. D.	70
	112	Rosenfeld, I. L.	86
Ptacek, Josef	- AT		

Roudelka, Miroslav	15		Schinca, Daniel Waksma	n 44
	42		Schlager, W.	92
Roux, Henri	121		Schlatter, R.	93
Rovinskiy, R. Ye.	114			17
Rozenberg, G. V.			Schmidt, Gerhard	
Rozenhole, M.	113		Schmidt, H. A. F.	129
Rozhdestvenskiy, V. I.			Schmidt, T.	92
Rozin, L. A.	73		Schmidt, W.	92
Rozovskiy, M. S.	88		Schmidtmann, E.	91
Rubanenko, B.	102		Schmutzler, G.	92
Rubinic, Ignac	108		Scholz, W.	95
Rubtsov, N.	9		Schoop, J.	96
Rudnitskii, A. A.	5		Schorg, Friedrich	25
Rudomanov, V. I.	126		Schueler, R.	113
Rumova, I.	14		Schuetze	17
Rushidov, Sh. R.	9		Schuller, H. J.	96
Russo, G.	66		Schulmeister, R.	94
Ruttmann, W.	97		Schulte, O.	92
Rvachev, L. A.	57		Schulz, H. P.	96
Ry ab ov	13		Schwab, H.	71
Ryabov, Yu. V.	112		Schwarz, W.	92
Ryazantsev, P.	49		Schwetje, W.	102
Ryokichi Tanaka	113		Seb, Li Khon	100
Ryszka, Jan	19		Sebestyen, Gy.	74
Ryzhkov, V. M.	72		Seck, Assane	32
Rzheshevskiy, V.	1		Sedmidubsky, J.	81
••			Sedov, V.	7
			Sedov, Yu. Ye.	86
- S -			Seidel, Gerd-Peter	98
			Sekistov, V.	10
Saakyan, V.	87		Sekowski, K.	99
Sachkov, N. K.	53		Seleznev, I.	8
Sadovskii, B. F.	70		Seleznev, V. P.	111
Safronov, B.	14		Selnes, Kare	3 0
Saidov, M.	3		Semenenko, V. Ye.	56
Sajo, I.	94		Semenikhin, G.	6
Sakai, T.	98		Semenov, A. P.	86
Sakharov, V. K.	120		Semenov, N.	130
Sakovets, O. I.	5		Semenov, N. A.	73
Sakurabayashi, M.	68		Semenov, V.	1, 4
Sakurai Hiroshi	35		Semerenko, M.	10
Salum, Kh.	77		Semin, S. I.	106
Sandulov, D. B.	121		Semov, V. V.	103
Santamaria, Ramiro	108		Senda, K.	99
Sarkisova, R.	2		Senderey, N.	3
Saushkin, Yu. G.	13		Serebryakov, V. P.	63
Sauskan, V. I.	63		Serebryannikov, V.	10
Savichev, G.	11		Sergeyev, A. V.	63
•	60		Sergeyev, G. A.	54
Savkin, V. I.	14			58
Sayushev, V.	93		Sergeyev, G. V. Sergiyenko, I. V.	77
Schaaber, O.	93 67			126
Scheer, M.	95		Seroczynska-Wojas, B.	126 84
Scheidl, H.			Severdonko, V. P.	76
Schenck, H.	94	•	Seyfer, A. L.	
Schenkel, Peter	43	**	Shafranskiy, V. V.	80 73
Schesky, E.	107		Shaginyan, S.	73
		0.54		
		- 239 -		
			e de la companya de l	
	1			

Shapiro, V. D.	115	Sitnin, V.	7	
	71	Skobina, A. I.	113	
Sharpatyy, V. A. Shashin, V. D.	4	Skolozdra, R. V.	100	
-	3	Skopenkov, V.	104	
Shatilo, B.	115	Skopina, Z.	3	
Shatinskiy, V. F.	77	Skornyakov, N.	1	
Shauman, A. M.	· ·		10	
Shcheglov, A.	49 15	Skryl'nik, A.	97	
Shehu, Rexhep	15	Skuin, K.	4	
Shekalov, A. A.	86	Slivin, P.	55	
Shekhovtsov, N. A.	112	Slobodskaya, G. A.		
Shelekhova, V. A.	103	Smagulov, T.	4	
Shelest, P. Ye.	9	Smirnov, G.	102	
Sheng Ta	129	Smirnov, V. M.	122	
Shepelenko, K. O.	75	Smolyakov, V. Ya.	130	
Sherr, A. S.	47	Smolyan, G. L.	57	
Shidlovskiy, A. A.	86	Smolyarchuk, V. I.	14	
Shieh, Ta-wei	130	Smolyarenko, D. A.	87	
Shimabukuro, M.	99	Sn eh, Moshe	34	
Shirokov, S.	106	Sodnom, D.	35	
Shishkanova, I. A.	61	Soeder, Guenter	23	
Shisu, A.	100	Sogrishin, Yu. P.	87,	117
Shitov, N.	8	Sokolov, A. V.	78	
Shkadov, V. Ya.	117	Soldatov, V.	49	
Shkol'nik, R. Ya.	55	Solodkin, V. K.	118	
Shlemin, V.	6	Solodovnikov, V. V.	80	-
Shmagin, L. F.	86	Solovyev, A. I.	88	
Shmelev, A.	11	Solov'yeva, A. I.	63	
Shmeleva, A. V.	76	Soltysik, G.	99	
Shneider, M. S.	57	Sorakina, G.	1	
Shraybman, V. I.	73	Sordet, Monique	32	
Shtegman, B. K.	57	Sorensen, S. V.	88	
Shteyman, S. V.	115	Sota, Jargji	23	
Shtreis, Ya. I.	86	Soulairac, A.	65	
Shubin, A. B.	75	Soulie, J.	130	
Shu Chi	40	Spacek, Josef	23	
	55	Spengler, G.	128	
Shukyurova, Z.	5 <i>7</i>	Speranskaya, L. N.	6	
Shupinskaya, M. D.		Spivak, S.	54	
Shurin, A. K.	85 20	Srovnal, Vojtech	25	
Sica, Ch.		Stacher, A.	67	
Sidorenko, A.	11		102	
Sidorenko, O. V.	112	Stachy, Juliusz	94	
Sidorova, L. V.	72 70	Stadler, F.	21	
Sidristyy, B. A.	79	Stahan, Josip	24	
Sieber, Rolf	23	Stancu, Natalia	74	
Siegel, R.	94	Stange, L.		
Siewert, J.	96	Stankevich, K. S.	117	
Sigl, R.	74	Stankiewicz, M.	99	
Simat, Krunoslav	25	Stapor, Jan	19	
Simon, Pal	108	Starcevic, Teodor	22	
Simonis, W.	94	Stawicky, W.	93	
Sinitsa, M.	48	Stefanovic, Mileva	100	
Sintak, J.	107	Stehlik, G.	67	
Sinyak, Yu. Ye.	61	Steiniger, Peter	•	
Sipos, B.	94	Alfons	26	
Sireno, G.	4	Sten'kin, Ye. D.	126	

		•	
Stepanov, A. V.	85	Tarasov, V. I.	113
Stepanov, K. N.	115	Taresevich, I. V.	58
Stepanyants, E.	49	Tatai, Z.	17
Sterio, Teodor	15	Tatarskiy, V. I.	53
Stimper, A.	107	Tatiyev, D.	54
Stocker, H. J.	92	Taton, Robert	32
Stoklitskiy, L. I.	88	Tauts, M. I.	56
Stoletov, V.	54	Tecu, Traian	100
Stopar, Jan	19	Telitchenko, M. M.	56
Streletskiy, Yu. S.	52	Temnikov, F. Ye.	80
Stroganov, V.	48	Teoreanu, Ion	27
Stronmeier, W.	125	Terman, A. V.	113
Strugarev, G.	23	Terskikh, I. I.	63
Struyev, A.	6	Tesche, K.	92
Strzemski, Michal	74	Thanh Tin	39
Studentsova, Ye. M.	105	The Ha	39
Suba, Jaroslav	15	Thiele, W.	
Subbotin, V. I.	119	Thoms, Berthold	98
Sudakov, S. G.	72		16
Sugazawa, K.	99	Thorn, W.	66
Sugiyama, Y.	125	Tiegel, K. H.	93
Sukhodub, I.	104	Tikhomirov, V. A.	104
Sukhomlinov, M. M.	75	Tikhonov, A. N.	101
Sukhoplyuyev, A.	2	Tikhonov, F.	6
Sumin, Yu. P.	120	Tikhonravov, M. K.	129
Sung, Chu-I	88	Timofeyechev, M.	10
Surace, F.	128	Tiunov, L. A.	128
Surmach, N.	4	Tobuu, O.	50
Sushkov, A. D.	80	Todorov, Vasil	26
Suta, Vasile	74	To Huu	41
Suvorov, A. P.		Tokar, Yoav	34
Suvorova, V. N.	120	Tolmadzhev, K.	3
Suza, Marton	118 23	Tomilin, G.	12
Svechnikov, V. N.	8 5	Tong-uk, O.	37
Sveshnikov, V. A.		Topfer, H.	82
Svoboda, 0.	73 25	Torgov, Yu. I.	80
Swierzawski, T.	25 92	Torgushina, N. S.	57
Synel'nykov, K. D.	82	Torres, Margarita	44
	123	Torresam, Carlo	125
Sysoyev, V. Szava, Nandor	12	Totsenko, V. G.	76
Szmuk, Al.	98	Toure, President	32
Szpindor.	20	Trainin, L. Ya.	118
	110	Tran Kien	39
Szwarc, Karol	19	Tran Loc	40
		Tran Nguyen	42
***		Tran Quoc Manh	51
- T -		Trapenese, G.	126
Tahun au M		Trestianu, S.	126
Tabunov, N.	10	Tret'yechenko, G. N.	84
Tageyeva, S. V.	60	Trinh Sat	40
Takacs, Gyorgy	17	Troitskaya, M. P.	103
Talypov, G. B.	85	Trokhimenko, Ya. K.	127
Tantsyura, A. A.	110	Tropp, Ye. A.	122
Tao Zu-wen	52	Trubayev, Yu.	102
Taranenko, Z. I.	127	Trubina, V. N.	103

T					
Trunov, O.	47		Vasilev, Krum	23	
Trusfus, V. M.	80		Vasilev, Vasil	15	
Trushin, Ye. V.	120		Vasil'yev, D.	4	
Tsedenbal, Yu.	38		Vasilyev, N.	111	
Tsend, O.	35		Vasil'yev, Yu. N.	126,	127
Tsirkin, Yu. M.	59		Vatchenko, A.	9	
Tsukamoto, A.	98		Vekilov, F. M.	55	
Tulai, C.	20		Velchev, Dimitur	15	
Tuliszka, E.	84		Velikovakiy, I. Ye.	127	
Turbovich, I. T.	75		Veljic, Miroslava	28	
Turkov, G.	4		Venkearek, Vitezslav	16	
Turuta, Ye. N.	105		•	2	
	88		Verba, P.		
Tushinskiy, L. I.			Verdeaux, G.	66	
Tyszko, Celina	18		Vereshchagin, Ye. M.	110	
			Vernov, S. N.	114	
			Vershinin, K.	12	
- U -			Vetukhnovskaya, Yu. N.	118	
			Viabchev, C.	63	
Udovichenko, Ye.	1		Viet Tien	39	
Ulanov, G. M.	80		Viktorov, V.	9	
Ung, Kim	35		Vinklarek, Vitezslav	16	
Ung Van Khiem	41		Vinogradov, G. V.	84	
Ustimenko, B. P.	119		Vinogradova, A. I.	109	
Usturoi, D.	20		Vinogradova, M. G.	14	
Utkin, A. A.	79		Vinogradova, S. V.	88	
ockin, A. A.	13			31	
			Viratelle, G.		
- V -			Viszlo, Imre	23	
- v -			Vladimirova, M. G.	56	
Marker W. B	A ==		Vlasov, V. I.	106	
Vachasov, Ye. P.	47		Vnukov, A. K.	109	
Vadimov, Ye.	12		Vodyanitskiy, A. A.	114	
Vakasinovic, Budimir	22		Vojtko, Jan	16	
Valadimirov, A. P.	88		Volkov, A. A.	77	
Valikhanov, M. N.	55		Volkov, A. M.	103	
Vamos, Tibor	26		Volkov, Ye. D.	114	
Vampola, I.	119		Volkova, A. Ye.	104	
Van den Hove, C.	81		Vol'pin, M. Ye.	61	
Van der Veen, J. H.	90		Vorob'yev, G. G.	75	
Van Fo Fy, G. A.	87		Vorob'yev, P.	3	
Van Son	51		Vorob'yev, S. A.	85	
Van Tien Dung	38		Vorob'yev, Ye. I.	104	
Van Uyen	39		Vorob'yev, Yu. A.	88	
Vandyshev, Justice V.	10				120
· ·			Voronin, G. I.	-	129
Vanyushin, V. F.	55		Voureth, H. G.	67	
Varavka, V.	48		Voytovich, R. F.	88	
Varga, J.	74		Vrana, Vladimir	26	
Vargas, Julio Horrera	43		Vranovska, J.	64	
Varlamov, V. F.	60		Vrsalovic, Berigoj	22	
Varshavskiy, G. A.	83		Vu Can	51	
Varshavskiy, V. I.	78		Vu Trong Kien	38	
Vas, A.	100		Vu Van Can	41	
Vasak, Vacav	50		Vucurovic, Dusan	22	
Vasilenko, N. V.	119		Vuksanovic, Radoslav	21,	22
Vasilenko, V. Kh.	58		Vul'f, B. K.	47	=
			Vulis, L. A.	119	
			Vundowe, Felix	33	
			Vyletal, M.	47	
		- 242 -	The second is	71	

Waclawek, Juliusz	24		
Waclawek, Juljusz	24	Yeliseyev, V. K.	76
Wada, Juro	69	Yelkina, V. N.	54
Wahlster, M.	95, 9	Yelozo, V. P.	62
Wahlster, M. A.	93 , 3	Yemel'yanenko, O. V.	116
Wallquist, G.		remeryanov, V. T.	12
Walther, R.	100	Yemin, O. N.	127
Wang Ch'ang-lin	92	Yeramzhyan, R. A.	113
Wang Chen	81	Yermenko, V. V.	120
Wang, De-kuan	113	Yermolenko, S. D.	47
Wang, Shou-Wu	110	Yermolov, A. Ya.	120
Weber, H.	124	Yerokhin, Yu. Ye.	56
Wehrmann, H.	19	Yersunev, M.	8
Wei Yeh	97	Yertel', L. Ya.	5
Weineck, H.	129	Yetsin, I. Sh.	109
Weisbrodt, I.	93	Yevreinov, Ye. V.	76
Weisen Ching	113	Yi Chang-su	36
Wendt, Kurt	109	Ying Chiao	84
Wenzel, W.	1 6	Yoshihisa Tanska	113
Wesolowski,	94	Yotov, Vladimir	15
Wlodzimierz		Yudin, F. P.	72
Wicher, A.	27	Yudin, V.	2
Wizet, A.	96	Yui Shou-dung	123
Woelk, G.	64	Yur'yev, V. F.	75
Wolf, L.	91		/3
Wolff, E.	71		
Wood, D. W.	64	- Z -	
Wroblewska-	130	,	
		Zabelin, N.	5
Mularczykowa, Zofia Wysocki, H.		Zabkowicz, Leopold	24
", socki, n.	94	Zagar, L.	91
		Zagaynyy, p.	11
v		Zaglubotskiy, P. M.	105
- X -		Zagrebnoy, V. T.	72
Xuan Mai		Zaharia, D.	20
veet LIST	36	Zakazov, N. P.	109
		Zakharov, M. V.	
v		Zakharov, V. V.	9, 11
- Y -		Zaletayev, M. V.	80 14
Yakovlev A s		7616444 7 12	119
Yakovlev, A. S.	47	Zaluzhnyy, V.	8
Yakovlev, Yu. N. Yanai, Natan	86	Zamora M., Oscar	
Veneke Doold at	33	74544444444	45 126
Yanaka, Ryokichi	113	Zamyslovsky, Z.	
Yannopoulos, Tatiana	32	Zapf, G.	89
Yanovskiy, N. Yao Ch'i	48	Zaporozhchenko, K.	95
	81	7.00.00.00.00.00	13
Yaroshevskin, A. A.	63	7444-41.1. 14	117
Yasyukov, M.	8		114
Yefimenko, V. V.	77	Zovechenke te n	57
Yegorov, A. V.	63	7 = 1 9 11	09
Yegorov, B. M.	76, 84	70 cho	.17
	113	7ah lam 🐯	74
VAIIbamb 6 a	124	Zone Oine -	25
Yel'bert, S. S.	101	Thehen A M	53
		1	10

Zharikov, G. P.	76	
Zharkov, A. P.	118	
Zhdanov, A. P.	120	
Zhevakin, S. A.	111	
Zhilin, V. G.	83	
Zhimerin, D. G.	83,	84
Zholnerovskiy, M. G.	54	•
Zhuk, N. P.	121	
Zhukov, V.	11	
Zhukovskiy, M. A.	58	
Zhukovskiy, S.	11	
Zhuravkov, A.	4	
Zhuravlev, V. N.	105	
Zhusupov, M. A.	113	
Zidek, M.	89	
Ziesling, K.	92	
Zilitinskevich, S. S.	53	
Zimmermann, R.	25	
Zinchenko, V. P.	57	
Zinenko, G. P.	118	
Zinovich, V. U.	72	
Zittoum, R.	66	
Zivkovic, Miroslav	28	
Zlatanov, Decent		
Zdravko	15	
Zlepko, V. F.	83	
Zlomanov, L.	49	
Zmeykov, V. N.	119	
Znamenskaya, T. V.	59	
Zrustek. A.	25	
Zubov, V. S.	78	
Zur Capellen, W. Meyer	102	
Zurawicki, Seweryn	19	
Zvara, I.	70	
Zykov, A. N.	106	
Zyryanov, G. K.	120	
Zyuzin, D.	78	
	_	

Zharikov, G. P.	76	
Zharkov, A. P.	118	
Zhdanov, A. P.	120	
Zhevakin, S. A.	111	
Zhilin, V. G.	83	
Zhimerin, D. G.	83,	84
Zholnerovskiy, M. G.	54	
Zhuk, N. P.	121	
Zhukov, V.	11	
Zhukovskiy, M. A.	58	
Zhukovskiy, S.	11	
Zhuravkov, A.	4	
Zhuravlev, V. N.	105	
Zhusupov, M. A.	113	
Zidek, M.	89	
Ziesling, K.	92	
Zilitinskevich, S. S.	53	
Zimmermann, R.	25	
Zinchenko, V. P.	57	
Zinenko, G. P.	118	
Zinovich, V. U.	72	
Zittoun, R.	66	
Zivkovic, Miroslav	28	
Zlatanov, Docent		
Zdravko	15	
Zlepko, V. F.	83	
Zlomanov, L.	49	
Zmeykov, V. N.	119	
Znamenskaya, T. V.	59	
Zrustek, A.	25	
Zubov, V. S.	78	
Zur Capellen, W. Meyer	102	
Zurawicki, Seweryn	19	
Zvara, I.	70	
Zykov, A. N.	106	
Zyryanov, G. K.	120	
Zyuzin, D.	78	

į

UNCLASSIFIED Central Intelligence Agency



7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

Moncy Later Ser for Sergio N. Alcivar

Chief, CIA Declassification Center, Declassification Review and Referral

Branch

Enclosures:

- 1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
- 2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)



Processing of OGA-Held CIA Documents



The following CIA documents located at DTIC were reviewed by CIA and declassification guidance has been provided.

OGA Doc ID	Job Num Box Fidr Doc	Box	별		Doc ID	Document Title		Pub Date Pages	ages	Decision	Proc Date
AD0831939	78-03109A	59	-	2	123	Consolidated Translation Survey Through 31 March 1968	hrough 31 March 1968	3/31/1968	252	Approved For Release	3/25/2004
AD0833917	78-03109A	29	-	က	124	Consolidated Translation Survey Through 30 April 1968	hrough 30 April 1968	4/30/1968	223	Approved For Release	3/25/2004
AD0835906	78-03109A	29	-	4	125	Consolidated Translation Survey Through 31 May 1968	hrough 31 May 1968	5/31/1968	267	Approved For Release	3/25/2004
AD0838252	78-03109A	29	-	Ŋ	126	Consolidated Translation Survey Through 30 June 1968	hrough 30 June 1968	6/30/1968	341	Approved For Release	3/25/2004
AD0839299	78-03109A	29	-	9	127	Consolidated Translation Survey Through 31 July 1968	hrough 31 July 1968	7/31/1968	354	Approved For Release	3/25/2004
AD0841414	78-03109A	29	-	7	128	Consolidated Translation Survey Through 31 August 1968	hrough 31 August 1968	8/31/1968	255	Approved For Release	3/25/2004
AD0844244	78-03109A	29	-	œ	129	Consolidated Translation Survey Through 30 September 1968	hrough 30 September	9/30/1968	259	Approved For Release	3/25/2004
AD0845247	78-03109A	09	-	-	130	Consolidated Translation Survey Through 31 October 1968		10/31/1968	252	Approved For Release	3/25/2004
AD0847806	78-03109A	09	-	0	131	Consolidated Translation Survey Through 30 November 1968		11/30/1968	284	Approved For Release	3/25/2004
AD0848152	78-03109A	09	- ,	က	132	Consolidated Translation Survey Through 31 December 1968	hrough 31 December	12/31/1968	176	Approved For Release	3/25/2004
AD0848841	78-03109A	09	-	4	133	Consolidated Translation Survey Through 31 January 1969	hrough 31 January 1969	1/31/1969	188	Approved For Release	3/25/2004
AD0850186	78-03109A	09	-	2	134	Consolidated Translation Survey Through 28 February 1969	hrough 28 February	2/28/1969	167	Approved For Release	3/25/2004
AD0851748	78-03109A	09	_	9	135	Consolidated Translation Survey Through 31 March 1969	hrough 31 March 1969	3/1/1969	232	Approved For Release	4/5/2004
AD0853348	78-03109A	09	-	7	136	Consolidated Translation Survey Through 30 April 1969	hrough 30 April 1969	4/30/1969	262	Approved For Release	3/25/2004
AD0856606	78-03109A	09	-	80	137	Consolidated Translation Survey Through 31 May 1969	hrough 31 May 1969	5/31/1969	306	Approved For Release	3/25/2004
AD0857706	78-03109A	63	-	-	138	Consolidated Translation Survey Through 30 June 1969	hrough 30 June 1969	8/22/1969	413	Approved For Release	3/25/2004
AD0858054	78-03109A	63	-	2	139	Consolidated Translation Survey Through 31 July 1969	hrough 31 July 1969	9/3/1969	185	Approved For Release	3/25/2004
AD0860022	78-03109A	63	-	က	140	Consolidated Translation Survey Through 31 August 1969	hrough 31 August 1969	10/3/1969	315	Approved For Release	3/25/2004
AD0860905	78-03109A	63	-	4	141	Consolidated Translation Survey Through 30 September 1969	hrough 30 September	9/30/1969	285	Approved For Release	3/25/2004
AD0861886	78-03109A	63	-	2	142	Consolidated Translation Survey Through 31 October 1969	hrough 31 October 1969	10/31/1969	569	Approved For Release	3/25/2004
AD0863371	78-03109A	63	-	9	143	Consolidated Translation Survey Through 30 November 1969	hrough 30 November	11/30/1969	224	Approved For Release	3/25/2004
AD0864516	78-03109A	63	-	7	144	Consolidated Translation Survey Through 31 December 1969	hrough 31 December	12/31/1969	177	Approved For Release	3/25/2004